

Full Report

01/10/2018

Item Number: 170503

Last Updated: 10/30/2017

Narrative:

Halliburton Energy Services reported abandoning an irretrievable well logging tool that contained two sources. The sources include a 74 GBq (2 Ci) Cs-137 source (AEA Technology model CDC.CY13, serial #2848GW) and a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #74804B). The well is located in Deadhorse, North Slope Borough, Alaska, and was operated by Hilcorp Alaska. The well logging tool became stuck on 9/3/2017 and abandonment efforts were completed on 9/11/2017. The Cs-137 source is located at a measured depth of 12,393 feet and the Am-Be source is located at a measured depth of 12,380 feet. The measured depth of the top of the cement abandonment plug is 11,291 feet. The total measured depth of the well is 12,980 feet.

Event Date: 09/03/2017

Date Reported to Agreement State:

Discovery Date: 09/03/2017

Date Reported to NRC: 09/26/2017

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: N

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2848GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 74804B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:**Reference Number:** **Entry Date:** **Retraction Date:** **Type of Report:**

ML17289B281 10/30/2017 LICENSEE REPORT

Narrative:

Roke Technologies reported the theft and recovery of two Am-Be well logging sources that contained an activity of 111 GBq (3 Ci), each. The two sources had been stolen from their storage area at Weller Ranch in Kern County, California, on 10/15/2017. Locks had been cut and the sources removed from their 12-foot storage pipe. A 2,500 pound calibration water tank was also stolen. The FBI was notified of the event on 10/15/2017. The two well logging sources were recovered on 10/16/2017. It was determined that an unauthorized individual had accessed the sources and removed them from their storage location. The individual had discarded them a short distance away without any knowledge of what they were. The individual also took the water calibration tank for his personal use. The well logging sources are back in possession of Roke Technologies. California Health and Human Services Agency responded to the site on 10/16/2017 and is tracking the incident as 5010 number 101517. INL has requested additional information for this event.

Event Date: 10/15/2017

Date Reported to Agreement State: 10/15/2017

Discovery Date: 10/15/2017

Date Reported to NRC: 10/16/2017

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-7897

Name: ROKE TECHNOLOGIES

NRC Docket Number: NA

City: REDLANDS

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 92373

Site of Event:

Site Name: REDLANDS

State: CALIFORNIA

Additional Involved Party:

License Number: NON-LICENSEE

Name: PRIVATE INDIVIDUAL

NRC Docket Number: NA

City: REDLANDS

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: N

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / THEFT, SABOTAGE, OR VANDALISM

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

NOT REPORTED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 3 Ci (111 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 3 Ci (111 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL STOLEN AND RECOVERED
TRILATERAL TO MEXICO

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN53016	10/24/2017		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

Narrative:

Halliburton Energy Services reported abandoning an irretrievable well logging tool that contained four sources. The sources include a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5565GW), a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN364), an 18.5 kBq (500 nCi) Cs-137 source (QSA Global model CDC.PLS), and a 59.2 kBq (1,600 nCi) Cs-137 source (QSA Global model CDC.PLS). The well is owned by California Resources Production Corporation (CRPC) and is located in Kern County, California. The top of the fishing apparatus is 11,023 feet below ground. Halliburton and CRPC submitted their abandonment plan to California Department of Conservation and the plan was approved. A memorial plaque will be mounted at the wellhead.

Event Date: 09/22/2017

Date Reported to Agreement State: 09/22/2017

Discovery Date: 09/22/2017

Date Reported to NRC: 09/29/2017

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0782-15

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93314

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5565GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN364

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0000016 Ci (1.6 µCi or 59.2 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	NA		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	NA		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-092217	10/10/2017		AGREEMENT STATE EVENT REPORT
LTR171113	11/27/2017		AGREEMENT STATE LETTER

Narrative:

Weatherford International reported abandoning an irretrievable well logging tool down hole that contained a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #08187B). The incident occurred on 9/8/2017. The source was abandoned at a depth of approximately 9,000 feet.

Event Date: 09/08/2017

Date Reported to Agreement State: 09/22/2017

Discovery Date: 09/08/2017

Date Reported to NRC: 09/28/2017

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OK-26891-02

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: OKLAHOMA CITY

NRC Program Code: NA

State: OKLAHOMA

NRC Region: 4

Zip Code: 73108

Site of Event:

Site Name: OKLAHOMA CITY

State: OKLAHOMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 08187B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OK170006	10/09/2017		AGREEMENT STATE EVENT REPORT
OK170006A	10/09/2017		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported that a 65.86 GBq (1.78 Ci) Cs-137 well logging source (Schlumberger model GGLS-FZ, serial #A3406) and a 677.1 MBq (18.3 mCi) Cf-252 well logging source (Schlumberger model NNLS-EWA, serial #4809) were stuck down hole. The well is located in Escambia County, near Pollard, Alabama. Schlumberger entered Alabama to perform work on 9/13/2017. Schlumberger started fishing operations on 9/14/2017. They notified Alabama Department of Public Health (DPH) of the stuck sources on 9/19/2017. Schlumberger failed to retrieve the two sources and fishing operations were ceased on 9/24/2017. The Cs-137 source was stuck at a depth of 15,654 feet and the Cf-252 source was stuck at a depth of 15,643 feet. The sources were cemented in place and abandoned down hole on 9/24/2017 in accordance with approved abandonment procedures. A plaque will be placed on the well head.

Event Date: 09/13/2017

Date Reported to Agreement State: 09/19/2017

Discovery Date: 09/13/2017

Date Reported to NRC: 09/19/2017

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: AL-0380

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: ESCAMBIA COUNTY

State: ALABAMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SCHLUMBERGER

Activity: 1.78 Ci (65.86 GBq)

Model Number: GGLS-FZ

IAEA Category: 4

Serial Number: A3406

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: SCHLUMBERGER

Activity: 0.0183 Ci (18.3 mCi or 677.1 MBq)

Model Number: NNLS-EWA

IAEA Category: 4

Serial Number: 4809

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

EN52977 09/27/2017 EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

AL170026 10/23/2017 AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported abandoning a well logging tool that contained a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #87909B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #90659B). The well is located in federal waters offshore Louisiana at South Timbalier Block 204 and is operated by Enven Energy Ventures. The well logging tool became stuck on 6/14/2017 and was abandoned on 6/22/2017. The Am-Be source is located at a measured depth of 18,990 feet and the Cs-137 source is located at a measured depth of 19,000 feet. The measured depth of the well is 19,047 feet. The top of the cement plug is at a measured depth of 18,847 feet. A plaque will be placed at the well head.

Event Date: 06/14/2017

Date Reported to Agreement State:

Discovery Date: 06/14/2017

Date Reported to NRC: 07/11/2017

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 204

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 87909B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 90659B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML17201Q154	08/10/2017		LICENSEE REPORT
LTR171020	11/03/2017		NRC LETTER

Narrative:

Baker Hughes reported abandoning a well logging tool that contained a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #87908B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #39408B). The well is located in federal waters offshore Louisiana at Garden Banks Block 216 and is operated by Hess Corporation. The well logging tool became stuck on 5/7/2017 and was abandoned on 5/12/2017. The Am-Be source is located at a measured depth of 17,041 feet and the Cs-137 source is located at a measured depth of 17,050 feet. The measured depth of the well is 17,100 feet. The top of the cement plug is at a measured depth of 16,565 feet. A plaque will be placed at the well head.

Event Date: 05/07/2017

Date Reported to Agreement State:

Discovery Date: 05/07/2017

Date Reported to NRC: 06/06/2017

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: GARDEN BANKS BLOCK 216

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 87908B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 39408B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML17171A328	06/27/2017		LICENSEE REPORT
LTR171020	11/03/2017		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-Z, serial #A2904) and a 277.5 GBq (7.5 Ci) Am-Be source (Gammatron model NSR-T, serial #H-15). The well is located in federal waters offshore Louisiana at Ship Shoal Block 218 and was operated by Ankor Energy. The well logging tool became stuck on 12/9/2012 and was abandoned on 12/15/2012. The Cs-137 source is located at a measured depth of 6,013 feet and the Am-Be source is located at a measured depth of 6,007 feet. The measured depth of the well is 6,898 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 12/09/2012

Date Reported to Agreement State:

Discovery Date: 12/09/2012

Date Reported to NRC: 12/12/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SHIP SHOAL BLOCK 218

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 7.5 Ci (277.5 GBq)

Model Number: NSR-T

IAEA Category: 3

Serial Number: H-15

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2904

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13015A182	06/21/2017		LICENSEE REPORT
ML13060A207	06/21/2017		REGION REPORT

Narrative:

Weatherford International reported abandoning a well logging tool (Weatherford International) that contained a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY4, serial #P62403B), a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #P74832P), a 370 kBq (10 µCi) Am-241 source (Eckert & Ziegler model Am1.G10, serial #1632/08), and two more small sources. The incident occurred on 5/9/2017 in a well in Brazos County, Texas. Following nine days of fishing attempts, Weatherford decided to abandon the tool and sources. The sources were abandoned at a depth of 5,775 feet. Approximately 1,500 feet of cement and 50 feet of red-dyed cement were placed above the well logging tool to prevent intrusion. Additionally, a stuck drill bit, heavy drill pipe, and 200 feet of drill collars were placed above the tool to act as a deflector. A plaque was ordered to be placed at the well head. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 05/09/2017

Date Reported to Agreement State: 05/09/2017

Discovery Date: 05/09/2017

Date Reported to NRC: 06/05/2017

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: BENBROOK

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: BRAZOS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY4

IAEA Category: 3

Serial Number: P62403B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P74832B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-241
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00001 Ci (10 µCi or 370 kBq)
Model Number:	AM1.G10	IAEA Category:	5
Serial Number:	1632/08		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	NR
Manufacturer:	NR	Activity:	NR
Model Number:	NR	IAEA Category:	NR
Serial Number:	AGGREGATE		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	WEATHERFORD INTERNATIONAL	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX170022	06/19/2017		AGREEMENT STATE EVENT REPORT
- TX-I-9484	06/19/2017		Same as TX170022
TX170022A	06/19/2017		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the loss of a 277.5 MBq (7.5 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-3756) down hole in a well in Eddy County, New Mexico. Upon returning a drill pipe conveyed wireline logging tool to the surface on 12/6/2015, it was discovered that the source holder door had detached from the tool and the source was missing. Radiation surveys of the tool and rig floor revealed negative results. Elevated radiation levels were identified at a measured depth of 15,378 feet. Analysis of the logging tool's data further supports that the source was lost at that depth. Fishing for the source capsule could jeopardize its integrity. Schlumberger received permission to abandon the source in place.

Event Date:	12/06/2015	Date Reported to Agreement State:	12/07/2015
Discovery Date:	12/06/2015	Date Reported to NRC:	03/29/2017

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	NM-WL-197-61	Name:	SCHLUMBERGER TECHNOLOGY CORP.
NRC Docket Number:	NA	City:	HOBBS
NRC Program Code:	NA	State:	NEW MEXICO
NRC Region:	4	Zip Code:	88210

Site of Event:

Site Name:	EDDY COUNTY	State:	NEW MEXICO
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CF-252
Manufacturer:	FRONTIER TECHNOLOGY	Activity:	0.0075 Ci (7.5 mCi or 277.5 MBq)
Model Number:	100SNS	IAEA Category:	4
Serial Number:	FTC-DF-3756		

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
NM150006	04/07/2017		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of a 63 GBq (1.7 Ci) Cs-137 irretrievable well logging source (QSA Global model GSR-J, serial #A5416). The well is located in the Wildcat field in Custer County, Montana, and is operated by Highlands Natural Resources. On 10/17/2016, the well logging tool became disconnected (was pulled off) from the wireline near the surface and fell back into the well. Attempts to retrieve the source were unsuccessful and the source was abandoned on 10/21/2016. The source is located at a measured depth of 2,300 feet. The measured depth of the well is 3,058 feet. Cement plugs and items for mechanical deflection were placed above the source. A plaque will be placed at the well head.

Event Date: 10/17/2016

Date Reported to Agreement State:

Discovery Date: 10/17/2016

Date Reported to NRC: 10/20/2016

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: CUSTER COUNTY

State: MONTANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5416

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML17039A941	02/14/2017		LICENSEE REPORT
ML17039A950	02/14/2017		LICENSEE REPORT
ML17107A353	06/21/2017		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of a well logging tool that contained four sources. The sources include a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #22838B), a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #59452B), a 3.6 kBq (97.18 nCi) Cs-137 source (North American Scientific model IND1402, serial #124772), and a 4.04 kBq (109.2 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #F5-629). The well is located in federal waters offshore Louisiana at Green Canyon Block 859 and was operated by Anadarko. The well logging tool became stuck on 11/22/2016 and abandonment efforts were completed on 11/29/2016. The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 29,511 feet and the Am-Be source is located at a measured depth of 29,498 feet. The measured depth of the top of the cement abandonment plug is 27,811 feet. The total measured depth of the well is 29,912 feet.

Event Date: 11/22/2016

Date Reported to Agreement State:

Discovery Date: 11/22/2016

Date Reported to NRC: 11/28/2016

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GREEN CANYON BLOCK 859

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 59452B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 22838B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000000097 Ci (97.18 nCi or 3.59566 kBq) 18
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	124772		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000109 Ci (109.2 nCi or 4.0404 kBq) 2
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	F5-629		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML17013A634	01/24/2017		LICENSEE REPORT
ML17107A353	06/21/2017		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported that a 5.55 GBq (150 mCi) Cs-137 source (QSA Global, model CDC.800, serial #1870CX) became stuck/lost in a strategic oil reserve cavern (in Iberville Parish, Louisiana) owned by the U.S. Department of Energy. The source became lost below the casing on 10/19/2016 and was declared irretrievable on 10/20/2016. The source is believed to be on the bottom of the cavern at a depth of 3,976 feet. Schlumberger decided to abandon the source and cap the well after several fishing attempts. The Louisiana Department of Environmental Quality granted Schlumberger permission to abandon the source on 10/20/2016.

Event Date: 10/19/2016

Date Reported to Agreement State: 10/20/2016

Discovery Date: 10/20/2016

Date Reported to NRC: 10/28/2016

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: NEW IBERIA

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70560

Site of Event:

Site Name: IBERVILLE

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 0.15 Ci (150 mCi or 5.55 GBq)

Model Number: CDC.800

IAEA Category: 4

Serial Number: 1870CX

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA160011	11/10/2016		AGREEMENT STATE EVENT REPORT
LTR170407	04/19/2017		AGREEMENT STATE LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #41788B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #90688B). The well is located in federal waters offshore Louisiana at Eugene Island Block 341 and is operated by Arena Offshore. The well logging tool became stuck on 7/23/2016 and was abandoned on 7/25/2016. The Am-Be source is located at a measured depth of 9,570 feet and the Cs-137 source is located at a measured depth of 9,579 feet. The measured depth of the well is 9,636 feet. The top of the cement plug is at a measured depth of approximately 5,992 feet. A plaque will be placed at the well head.

Event Date: 07/23/2016

Date Reported to Agreement State:

Discovery Date: 07/23/2016

Date Reported to NRC: 08/18/2016

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: EUGENE ISLAND BLOCK 341

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 41788B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 90688B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML16250A842	09/20/2016		LICENSEE REPORT
LTR161021	11/03/2016		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #91091B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #39412B). The well is located in federal waters offshore Louisiana at Keathley Canyon Block 129 and is operated by Cobalt International Energy. The well logging tool became stuck on 6/7/2016 and was abandoned on 6/14/2016. The Am-Be source is located at a measured depth of 32,714 feet and the Cs-137 source is located at a measured depth of 32,723 feet. The measured depth of the well is 33,036 feet. The top of the cement plug is at a measured depth of approximately 27,960 feet. A plaque will be placed at the well head.

Event Date: 06/07/2016

Date Reported to Agreement State:

Discovery Date: 06/07/2016

Date Reported to NRC: 06/30/2016

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: KEATHLEY CANYON BLOCK 129

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 91091B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 39412B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML16250A841	09/20/2016		LICENSEE REPORT
LTR161021	11/03/2016		NRC LETTER

Narrative:

Halliburton Energy Services reported the abandonment of a well logging tool that contained four sources. The sources include a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5474GW), a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #422), a 59.2 kBq (1,600 nCi) Cs-137 source (QSA Global model CDC.PLS, serial #PT114), and a 29.6 kBq (800 nCi) Cs-137 source (AEA Technologies model CDC.PLS, serial #CO-618). The well is located in the ADA Field at the TANOS Exploration Site in Bienville Parish, Louisiana. The well logging tool became stuck at 5,540 feet below the surface on 7/2/2016 and fishing efforts continued until 7/9/2016. Halliburton has no plans to sidetrack the well. A 200-foot cement plug containing red iron oxide and a drill bit were placed downhole to act as a deflection device.

Event Date: 07/02/2016

Date Reported to Agreement State: 07/08/2016

Discovery Date: 07/08/2016

Date Reported to NRC: 08/01/2016

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2353-L01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: BIENVILLE PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5474GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: 422

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0000016 Ci (1.6 µCi or 59.2 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	PT114		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	CO-618		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA160008	08/15/2016		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources include a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #54909B), a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #74812B), a 4 kBq (108.2 nCi) Cs-137 source (North American Scientific model IND1402, serial #15659), and a 3.37 kBq (91.12 nCi) Cs-137 source (North American Scientific model IND1402, serial #J7-662). The well is located in federal waters offshore Louisiana at Keathley Canyon Block 919 and operated by Anadarko. The well logging tool became stuck on 3/13/2016 and abandonment efforts were completed on 3/15/2016. The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 16,956 feet and the Am-Be source is located at a measured depth of 16,939 feet. The measured depth of the top of the cement abandonment plug is 15,440 feet. The total measured depth of the well is 17,054 feet.

Event Date: 03/13/2016

Date Reported to Agreement State:

Discovery Date: 03/13/2016

Date Reported to NRC: 03/14/2016

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: KEATHLEY CANYON BLOCK 919

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 74812B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 54909B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000000108 Ci (108.2 nCi or 4.0034 kBq)
			2
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	15659		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000000091 Ci (91.12 nCi or 3.37144 kBq)
			12
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	J7-662		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML16112A125	04/27/2016		LICENSEE REPORT
LTR161021	11/03/2016		NRC LETTER

Narrative:

Baker Hughes Oilfield Operations reported abandoning a well logging tool downhole that contained a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #80187B). Baker Hughes was performing operations in Weld County, Colorado, under reciprocity. The well was being operated by Extraction Oil and Gas, Incorporated. The tool became stuck in the well on 4/13/2015. Fishing attempts were unsuccessful. An abandonment plan was submitted and approved by the Colorado Department of Public Health and Environment and Colorado Oil and Gas Conservation Commission. The source was abandoned according to requirements.

Event Date: 04/13/2015

Date Reported to Agreement State: 05/16/2015

Discovery Date: 04/13/2015

Date Reported to NRC: 03/10/2016

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: ASAS

License Number: LA-6025-L01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: WELD COUNTY

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 80187B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CO15-I15-39	03/31/2016		AGREEMENT STATE EVENT REPORT

Narrative:

Well Analysis Corporation (WAC) reported the loss of a well logging tool (WELACO model 1-3/8, serial #J110) downhole, which contained 55.5 MBq (1.5 mCi) of I-131. The incident occurred on 2/3/2016 at Cal Energy Company's geothermal power plant. The well is located in the Salton Sea Field and the tool is believed to be at a depth of 3,040 feet. Downhole tracer studies were in progress when the tool became lost. WAC performed six attempts with a wireline unit and an overshot to recover the tool; these attempts were unsuccessful.

Event Date: 02/03/2016

Date Reported to Agreement State: 02/08/2016

Discovery Date: 02/03/2016

Date Reported to NRC: 02/17/2016

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-4210-15

Name: WELL ANALYSIS CORPORATION

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93390

Site of Event:

Site Name: SALTON SEA FIELD

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: UNSEALED SOURCE OTHER

Radionuclide: I-131

Manufacturer: NR

Activity: 0.0015 Ci (1.5 mCi or 55.5 MBq)

Model Number: NA

IAEA Category: NA

Serial Number: NA

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA2246	03/01/2016		AGREEMENT STATE EVENT REPORT
- CA-020316	03/01/2016		Same as CA-XCA2246
LTR160314	03/29/2016		AGREEMENT STATE LETTER
LTR160628	07/12/2016		AGREEMENT STATE LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #54159B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #73932B). The well is located in federal waters offshore Louisiana at Eugene Island Block 314 and is operated by Arena Offshore. The well logging tool became stuck on 10/4/2015 and was abandoned on 10/6/2015. The Am-Be source is located at a measured depth of 8,796 feet and the Cs-137 source is located at a measured depth of 8,806 feet. The measured depth of the well is 9,143 feet. The top of the cement plug is at a measured depth of approximately 8,236 feet. A plaque will be placed at the well head.

Event Date: 10/04/2015

Date Reported to Agreement State:

Discovery Date: 10/04/2015

Date Reported to NRC: 10/25/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: EUGENE ISLAND BLOCK 314

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 54159B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 73932B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15335A578	02/01/2016		LICENSEE REPORT
ML16020A235	02/04/2016		REGION REPORT
ML16025A257	02/04/2016		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of a 63 GBq (1.7 Ci) Cs-137 irretrievable well logging source (QSA Global model CDC.CY3, serial #A2704) contained in a well logging tool (Gamma Ray Source). The well is located in Hardin County, Texas. The source was abandoned at a depth of 9,563 feet. A 200-foot cement plug containing red iron oxide dye was added above the tool to a depth of 8,680 feet. Over 880 feet of irretrievable drill pipe and a bottom hole assembly will serve as a mechanical deflection device. A plaque was ordered for placement at the well head.

Event Date: 11/05/2015
Discovery Date: 11/05/2015

Date Reported to Agreement State: 11/05/2015
Date Reported to NRC: 12/04/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L01833
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: SUGAR LAND

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: CDC.CY3
Serial Number: A2704

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: GAMMA RAY SOURCE

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX150053	12/21/2015		AGREEMENT STATE EVENT REPORT
- TX-I-9354	12/21/2015		Same as TX150053

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (QSA Global model NSR-U, serial #Q1082) and a 63 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-Z, serial #A3030). The well is located in federal waters offshore Louisiana at Green Canyon Block 609 and is operated by BHP Billiton. The well logging tool was declared irretrievable on 7/4/2015 and was abandoned on 7/12/2015. The Am-Be source is located at a measured depth of 26,865 feet and the Cs-137 source is located at a measured depth of 26,870 feet. The measured depth of the well is 28,653 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 07/04/2015

Date Reported to Agreement State:

Discovery Date: 07/04/2015

Date Reported to NRC: 07/04/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 609

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: Q1082

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A3030

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15286A456	10/26/2015		LICENSEE REPORT
ML16020A235	02/09/2016		REGION REPORT
ML16025A252	02/09/2016		REGION REPORT

Narrative:

Wayne County Well Surveys (WCWS) reported the loss and recovery of a 111 GBq (3 Ci) Am-Be source (QSA Global model AMN.CY3, serial #82989B). The WCWS RSO last verified possession of the source on 6/2/2015 during a leak test. WCWS believes that the source transport case had been dislodged from a logging rig while returning from a jobsite in Decatur, Illinois. Preliminary investigation indicated that personnel failed to properly secure the source transport case to the rig on about 9/9/2015. It was not until 10/15/2015 that the source was discovered to be missing. WCWS conducted visual surveys along the rig's travel route without success. The Illinois Emergency Management Agency (EMA) dispatched teams with radiation detectors to traverse the route. Local law enforcement, scrap yards in the area, and officials in 13 surrounding counties were informed. A press release was issued by EMA to media outlets. A monetary reward was offered for useful information or recovery of the source. Corrective actions included obtaining new equipment, developing a new procedure, and providing personnel with additional training and supervision. WCWS stated on 3/4/2016 that the source had been found by a private individual. The individual found the source transport case in a field that had recently been plowed. The individual placed the case into his truck and transported it to WCWS. The source was still locked in its transport case and had not been tampered with. WCWS performed a swipe test of the source with negative results. The source was placed back into service.

Event Date: 09/09/2015

Date Reported to Agreement State: 10/16/2015

Discovery Date: 10/15/2015

Date Reported to NRC: 10/16/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: IL-01804-01

Name: WAYNE COUNTY WELL SURVEYS

NRC Docket Number: NA

City: FAIRFIELD

NRC Program Code: NA

State: ILLINOIS

NRC Region: 3

Zip Code: 62837

Site of Event:

Site Name: DECATUR

State: ILLINOIS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

NEW EQUIPMENT OBTAINED

NEW PROCEDURE WRITTEN

PERSONNEL RECEIVED ADDITIONAL TRAINING

PERSONNEL RECEIVE IMPROVED SUPERVISION

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 3 Ci (111 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 82989B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN51475	10/26/2015		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
IL15020	01/05/2016		AGREEMENT STATE EVENT REPORT
EN51475A	03/08/2016		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
ML16071A194	03/17/2016		NRC LETTER
ML16071A194	03/17/2016		INSPECTION REPORT
IL15020A	06/01/2016		AGREEMENT STATE EVENT REPORT
IL15020B	07/05/2016		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of an irretrievable well logging tool, which contained a 65.86 GBq (1.78 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #5568GW), a 59.2 kBq (1.6 µCi) Cs-137 source, and an 18.5 kBq (0.5 µCi) Cs-137 source. The well logging tool's Am-Be source was recovered from the well. The well is located in Ward County, Texas. The 65.86 GBq (1.78 Ci) Cs-137 source is located at a depth of 8,508 feet. A 150-foot cement plug containing red iron oxide dye was placed in the well above the source to a depth of 8,355 feet. A drill bit was placed above the cement plug to act as a deflection device. Halliburton has no intention of side tracking the well. A plaque has been ordered for placement at the wellhead. The sources were abandoned in accordance with the Texas Railroad Commission and Department of State Health Services.

Event Date: 09/22/2015

Date Reported to Agreement State: 09/22/2015

Discovery Date: 09/22/2015

Date Reported to NRC: 10/08/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: WARD COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5568GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.0000016 Ci (1.6 µCi or 59.2 kBq)

Model Number: NR

IAEA Category: 5

Serial Number: NR

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	HALLIBURTON	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX150044	10/22/2015		AGREEMENT STATE EVENT REPORT
- TX-I-9341	10/22/2015		Same as TX150044

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (QSA Global model NSR-U, serial #Q1359) and a 63 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-Z, serial #A3396). The well is located in federal waters offshore Louisiana at Green Canyon Block 640 and is operated by Chevron USA (Deepwater Projects and Exploration). The well logging tool became stuck on 8/20/2015, was declared irretrievable on 8/21/2015, and was abandoned on 8/23/2015. The Am-Be source is located at a measured depth of 27,096 feet and the Cs-137 source is located at a measured depth of 27,092 feet. The measured depth of the well is 27,250 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 08/20/2015

Date Reported to Agreement State:

Discovery Date: 08/20/2015

Date Reported to NRC: 08/21/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 640

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: Q1359

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A3396

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15246A302	09/24/2015		LICENSEE REPORT
ML15258A269	09/24/2015		LICENSEE REPORT
ML16020A235	02/04/2016		REGION REPORT
ML16025A228	02/04/2016		REGION REPORT
LTR160219	03/03/2016		NRC LETTER

Narrative:

Halliburton Energy Services reported the abandonment of five irretrievable well logging sources. The sources include two 148 GBq (4 Ci) Am-Be sources (QSA Global model CDC.CY17, serial #7081NN and 7082NN), a 74 GBq (2 Ci) Cs-137 source (AEA Technologies model CDC.CY13, serial #23638B), a 8.51 kBq (230 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #15-946), and a 5 kBq (135 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #J5-412). The well is located in Kenai Borough, Alaska, and operated by Hillcorp Alaska. The well logging tool became stuck on 6/17/2015 and abandonment efforts were completed on 6/30/2015. The Am-Be sources are located at a measured depth of 12, 013 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 12,028 feet. The measured depth of the top of the cement abandonment plug is 7,500 feet. The total measured depth of the well is 12,099 feet.

Event Date: 06/17/2015

Date Reported to Agreement State:

Discovery Date: 06/17/2015

Date Reported to NRC: 06/23/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: KENAI BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: CDC.CY17

IAEA Category: 3

Serial Number: 7081NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: CDC.CY17

IAEA Category: 3

Serial Number: 7082NN

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	23638B		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	I5-946		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	J5-412		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15212A601	08/10/2015		LICENSEE REPORT
ML16020A235	02/09/2016		REGION REPORT
ML16025A246	02/09/2016		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of a 181.3 GBq (4.9 Ci) Am-Be irretrievable well logging source (Gammatron model AN-HP, serial #T-491). The well is located in federal waters offshore Louisiana at Block VR 398 and was operated by McMoRan Oil & Gas. The well logging tool became stuck on 4/22/2014 and abandonment efforts were completed on 5/22/2015. The source is located at a measured depth of 14,345 feet. The measured depth of the well is 15,520 feet. Four cement plugs were placed above the source.

Event Date: 04/22/2014

Date Reported to Agreement State:

Discovery Date: 04/22/2014

Date Reported to NRC: 03/06/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: BLOCK VR 398

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 4.9 Ci (181.3 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: T-491

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15188A445	07/14/2015		LICENSEE REPORT
ML16020A235	02/04/2016		REGION REPORT
ML16025A254	02/04/2016		REGION REPORT

Narrative:

Hunter Well Science reported that during maintenance on a pulsed neutron generator (PNG; Thermo Fisher model RAS-001, serial #3000), the 111 GBq (3 Ci) H-3 sealed tube (Thermo Fisher model B-320, assayed 4/19/2013) was damaged and determined to be leaking. The incident occurred during maintenance on the PNG on 3/5/2015. The incident was identified by the Texas Department of State Health Services on 6/10/2015. H-3 contamination was identified on the maintenance countertop and on the internal casing and housing of the PNG. Radioactive contamination was confined to the tool and countertop. Contamination wipes revealed 40,800 cpm or 680 cps (calculated to be 136 µSv/hour or 13.6 mrem/hour). The area was wiped clean and all cleanup material was placed into a sealed drum awaiting proper disposal. The PNG was salvaged and reworked into a new usable tool with a new serial number. The release of radioactive material aspect of this event was retracted on 6/12/2015. That determination was based on the release not exceeding regulatory limits. The contaminated area did not require restricted access and the quantity of material did not exceed ALI limits.

Event Date: 03/05/2015

Date Reported to Agreement State: 06/10/2015

Discovery Date: 06/10/2015

Date Reported to NRC: 06/10/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06413

Name: HUNTER WELL SCIENCE INC.

NRC Docket Number: NA

City: ARLINGTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76011

Site of Event:

Site Name: ARLINGTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EQP

EQUIPMENT FAILURE / MECHANICAL IMPACT

LAS

EQUIPMENT FAILURE / MECHANICAL IMPACT

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: NA

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

EQP

NEW EQUIPMENT OBTAINED

MATERIAL DISPOSED OF AS WASTE

LAS

NEW EQUIPMENT OBTAINED

MATERIAL DISPOSED OF AS WASTE

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	H-3
Manufacturer:	THERMO FISHER SCI.	Activity:	3 Ci (111 GBq)
Model Number:	B-320	IAEA Category:	NA
Serial Number:	NR		

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	H-3
Manufacturer:	THERMO FISHER SCI.	Activity:	3 Ci (111 GBq)
Model Number:	B-320	IAEA Category:	NA
Serial Number:	NR		

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	RAS-001
Manufacturer:	THERMO FISHER SCI.	Serial Number:	3000

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	RAS-001
Manufacturer:	THERMO FISHER SCI.	Serial Number:	3000

Reporting Requirements:

EQP

30.50(b)(2) - Equipment is disabled or fails to function as designed.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND PARTIALLY FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN51144	06/18/2015	06/12/2015	EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-9319	06/18/2015		AGREEMENT STATE EVENT REPORT
TX-I-9319A	06/18/2015		AGREEMENT STATE EVENT REPORT
LTR160122	02/09/2016		AGREEMENT STATE LETTER

Narrative:

Schlumberger Technology Corporation reported that two sources were stuck downhole with the wireline tool string at a depth of approximately 8,304 feet on 12/15/2014. One source (Gammatron model NSR-F, serial #G5062) contained 592 GBq (16 Ci) of Am-Be and the other source (QSA Global model CDC.CY3/GSR-J, serial #A5255) contained 63 GBq (1.7 Ci) of Cs-137. Schlumberger attempted three times to retrieve the tool string using the cut and thread technique without success. The sources were declared irretrievable on 12/18/2014. The well is owned by OXY USA and is located in Hackberry North Field in Eddy County, New Mexico. The sources were abandoned according to procedure and an abandonment plaque was secured at the wellhead.

Event Date: 12/15/2014

Date Reported to Agreement State: 12/19/2014

Discovery Date: 12/18/2014

Date Reported to NRC: 05/11/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: NM-WL-197-61

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: HOBBS

NRC Program Code: NA

State: NEW MEXICO

NRC Region: 4

Zip Code: 88210

Site of Event:

Site Name: EDDY COUNTY

State: NEW MEXICO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5062

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5255

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
NM140006	05/26/2015		AGREEMENT STATE EVENT REPORT
LTR150820	09/02/2015		AGREEMENT STATE LETTER

Narrative:

RECON reported that a 74 GBq (2 Ci) Cs-137 well logging source (Gulf Nuclear model CSV, serial #M61) was stuck down hole and fishing operations were unsuccessful. The well is located in Hutchinson County, Texas. The source was not retrievable and was abandoned down hole on 3/23/2015 in accordance with the Texas Railroad Commission and the Department of State Health Services regulations.

Event Date:	03/23/2015	Date Reported to Agreement State:	03/23/2015
Discovery Date:	03/23/2015	Date Reported to NRC:	04/10/2015

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L06026	Name:	RECON
NRC Docket Number:	NA	City:	OKLAHOMA CITY
NRC Program Code:	NA	State:	OKLAHOMA
NRC Region:	4	Zip Code:	73107

Site of Event:

Site Name:	HUTCHINSON COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	2 Ci (74 GBq)
Model Number:	CSV	IAEA Category:	4
Serial Number:	M61		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX150016	04/24/2015		AGREEMENT STATE EVENT REPORT
- TX-I-9287	04/24/2015		Same as TX150016
TX150016A	05/19/2015		AGREEMENT STATE EVENT REPORT

Narrative:

Sonic Surveys reported the abandonment of a 5.55 GBq (150 mCi) Co-60 well logging source (Eckert & Ziegler model HEG-060, serial #CZ3968) on 3/16/2015. The well logging tool (Antares USA model 1466 Gamma Ray, serial #1466005A) fell through the wellhead casing and to the bottom of the cavern at a depth of 4,206 feet. There is no possible method of retrieval and no fishing attempts will be made. A plaque was ordered to mount at the wellhead. The cause was human error and corrective actions included training personnel. The source was abandoned in accordance with Texas Railroad Commission and Department of State Health Services regulations.

Event Date: 03/16/2015

Date Reported to Agreement State: 03/16/2015

Discovery Date: 03/16/2015

Date Reported to NRC: 04/10/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02622

Name: SONIC SURVEYS

NRC Docket Number: NA

City: MONT BELVIEU

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77580

Site of Event:

Site Name: CHAMBERS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

PERSONNEL RECEIVED ADDITIONAL TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CO-60

Manufacturer: ECKERT & ZIEGLER

Activity: 0.150 Ci (150 mCi or 5.55 GBq)

Model Number: HEG-060

IAEA Category: 4

Serial Number: CZ3968

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: 1466 GAMMA RAY

Manufacturer: ANTARES

Serial Number: 1400005A

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX150012	04/23/2015		AGREEMENT STATE EVENT REPORT
- TX-I-9284	04/23/2015		Same as TX150012

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (Gammatron model NSR-U, serial #N372) and a 63 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2201). The well is located in federal waters offshore Louisiana at Mississippi Canyon Block 943 and is operated by Shell Exploration and Production. The well logging tool became stuck on 3/7/2015, was declared irretrievable on 3/11/2015, and was abandoned on 3/14/2015. The Am-Be source is located at a measured depth of 26,084 feet and the Cs-137 source is located at a measured depth of 26,088 feet. The measured depth of the well is 26,158 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 03/07/2015

Date Reported to Agreement State:

Discovery Date: 03/07/2015

Date Reported to NRC: 03/11/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: MISSISSIPPI CANYON BLOCK 943

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: N372

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2201

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15107A127	04/20/2015		LICENSEE REPORT
ML15183A059	07/07/2015		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #73961B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #80196B). The well is located in federal waters offshore Louisiana at Mississippi Canyon Block 582 and is operated by Murphy Exploration and Production. The well logging tool became stuck on 2/16/2015 and was abandoned on 2/20/2015. The Am-Be source is located at a measured depth of 11,294 feet and the Cs-137 source is located at a measured depth of 11,302 feet. The measured depth of the well is 11,370 feet. The top of the cement plug is at a measured depth of approximately 10,525 feet. A plaque will be placed at the well head.

Event Date: 02/16/2015

Date Reported to Agreement State:

Discovery Date: 02/16/2015

Date Reported to NRC: 02/19/2015

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: MISSISSIPPI CANYON BLOCK 582

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 73961B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 80196B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15083A381	03/30/2015		LICENSEE REPORT
ML15126A105	05/18/2015		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #87904B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #71901B). The well is located at Cook Inlet, Alaska, and is operated by Cook Inlet Energy. The sources became stuck on 7/1/2014 and were abandoned on 7/11/2014. The Am-Be source is located at a measured depth of 11,925 feet and the Cs-137 source is located at a measured depth of 11,933 feet. The top of the cement plug is at a measured depth of 10,537 feet. The measured depth of the well is 12,012 feet.

Event Date: 07/01/2014

Date Reported to Agreement State:

Discovery Date: 07/01/2014

Date Reported to NRC: 07/09/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: COOK INLET

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 87904B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 71901B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15042A546	03/10/2015		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #93456-B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP34643-B). The well is located in federal waters offshore Louisiana at South Marsh Block 152 and is operated by EnVen Energy Ventures. The well logging tool became stuck on 12/21/2014 and was abandoned on 12/25/2014. The Am-Be source is located at a measured depth of 7,082 feet and the Cs-137 source is located at a measured depth of 7,092 feet. The measured depth of the well is 7,200 feet. Cement plugs and items for mechanical deflection were placed above the source. A plaque will be placed at the well head.

Event Date: 12/21/2014

Date Reported to Agreement State:

Discovery Date: 12/21/2014

Date Reported to NRC: 12/24/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: SOUTH MARSH BLOCK 152

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 93456-B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP34643-B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML15043A771	02/16/2015		LICENSEE REPORT
LTR150323	04/07/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT
ML15111A360	04/29/2015		LICENSEE REPORT
ML16020A235	02/08/2016		REGION REPORT
ML16025A230	02/08/2016		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of three irretrievable well logging sources. The sources included a 65.86 GBq (1.78 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5249GW), an 18.5 Bq (0.5 µCi) Cs-137 source (QSA Global model CDC.PLS, serial #TC272), and a 59.2 Bq (1.6 µCi) Cs-137 source (QSA Global model CDC.PLS, serial #TC279). The well is located in Kern County, California, and is owned by California Resources Corporation (CRC). Fishing operations for the well logging tool began on 1/7/2015. CRC decided to abandon the logging tool on 1/9/2015. All three sources are located at a depth of 9,195 feet. The California Health and Human Services Agency (Radiological Health Branch) and the Department of Conservation (Division of Oil, Gas, and Geothermal Resources) approved the abandonment plan.

Event Date: 01/07/2015

Date Reported to Agreement State: 01/07/2015

Discovery Date: 01/07/2015

Date Reported to NRC: 01/20/2015

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0782-15

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93307

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5249GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 0.0000005 Ci (500 nCi or 18.5 kBq)

Model Number: CDC.PLS

IAEA Category: 5

Serial Number: TC272

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0000016 Ci (1.6 µCi or 59.2 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	TC279		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA2089	02/05/2015		AGREEMENT STATE EVENT REPORT
- CA-010715	02/05/2015		Same as CA-XCA2089
LTR150224	03/10/2015		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources include a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #39381B), a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #84492B), a 3.54 kBq (95.63 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #H3-626), and a 4.03 kBq (109 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #H2-698). The well is located in Kenai Borough, Alaska, and is operated by Hilcorp Alaska, LLC. The well logging tool became stuck on 10/5/2014 and abandonment efforts were completed on 10/11/2014. The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 3,839 feet and the Am-Be source is located at a measured depth of 3,826 feet. The measured depth of the top of the cement abandonment plug is 3,559 feet. The total measured depth of the well is 4,695 feet.

Event Date: 10/05/2014

Date Reported to Agreement State:

Discovery Date: 10/05/2014

Date Reported to NRC: 10/09/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: KENAI BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 39381B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 84492B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000095 Ci (95.63 nCi or 3.53831 kBq)
			63
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	H3-626		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000109 Ci (109 nCi or 4.033 kBq)
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	H2-698		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14300A570	01/21/2015		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT
ML15099A763	04/20/2015		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources include a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #22854B), a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #59458B), a 3.62 kBq (97.92 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #124725), and a 4.06 kBq (109.7 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #F5-642). The well is located in federal waters offshore Louisiana at Keathley Canyon Block 93 and was operated by BP Exploration and Production. The well logging tool became stuck on 11/20/2014 and abandonment efforts were completed on 11/30/2014. The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 26,628 feet and the Am-Be source is located at a measured depth of 26,647 feet. The measured depth of the top of the cement abandonment plug is 25,483 feet. The total measured depth of the well is 26,799 feet.

Event Date: 11/20/2014

Date Reported to Agreement State:

Discovery Date: 11/20/2014

Date Reported to NRC: 11/27/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: KEATHLEY CANYON BLOCK 93

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 22854B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 59458B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000097 Ci (97.92 nCi or 3.62304 kBq) 92
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	124725		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000109 Ci (109.7 nCi or 4.0589 kBq) 7
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	F5-642		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14365A304	01/06/2015		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT
ML16020A235	02/09/2016		REGION REPORT
ML16025A235	02/09/2016		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable 62.9 GBq (1.7 Ci) Cs-137 well logging source (QSA Global model GGLS-DA, serial #A2828). The well is located in federal waters offshore Louisiana at Viosca Knoll Block 915 and is operated by FreePort McMoRan Oil and Gas. The well logging tool became stuck on 12/1/2014, was declared irretrievable on 12/3/2014, and was abandoned on 12/4/2014. The source is located at a measured depth of 14,436 feet. The measured depth of the well is 14,612 feet. Cement plugs and items for mechanical deflection were placed above the source. A plaque will be placed at the well head.

Event Date: 12/01/2014

Date Reported to Agreement State:

Discovery Date: 12/03/2014

Date Reported to NRC: 12/03/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: VIOSCA KNOLL BLOCK 915

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GGLS-DA

IAEA Category: 4

Serial Number: A2828

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14356A241	01/06/2015		LICENSEE REPORT
ML14365A307	01/06/2015		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation (STC) reported on 10/27/2014 that a 4.63 GBq (125 mCi) Cs-137 source (Gulf Nuclear model CSV, serial #CSV-129) became stuck/lost down hole in a strategic oil reserve cavern for the Department of Energy. STC was performing operations when the source became lost in the cavern. Following several fishing attempts, the source was declared irretrievable on 11/11/2014. The source is believed to be at the bottom of the cavern at a depth of 3,575 feet. STC decided to cap and abandon the location. The Louisiana Radiation Protection Division is tracking the incident as number LA140012.

Event Date: 10/27/2014

Date Reported to Agreement State: 10/27/2014

Discovery Date: 10/27/2014

Date Reported to NRC: 12/04/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SHREVEPORT

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 71129

Site of Event:

Site Name: CAMERON PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 0.125 Ci (125 mCi or 4.625 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: CSV-129

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN50655	12/15/2014		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR150415	04/29/2015		AGREEMENT STATE LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 555 GBq (15 Ci) Am-Be source (QSA Global model NSR-M, serial #Q1012) and a 63 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-Z, serial #A2529). The well is located in federal waters offshore Louisiana at South Timbalier Block 125 and is operated by Energy XXI. The well logging tool became stuck on 8/31/2014, was declared irretrievable on 9/13/2014, and was abandoned on 9/14/2014. The Am-Be source is located at a measured depth of 16,705 feet and the Cs-137 source is located at a measured depth of 16,707 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 08/31/2014

Date Reported to Agreement State:

Discovery Date: 09/13/2014

Date Reported to NRC: 09/13/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 125

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: Q1012

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2529

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14261A445	10/29/2014		LICENSEE REPORT
ML14267A310	10/29/2014		LICENSEE REPORT
ML14267A316	10/29/2014		LICENSEE REPORT
ML14300A612	10/29/2014		LICENSEE REPORT
- ML14311A807	11/13/2014		Same as ML14300A612
ML15030A206	02/09/2015		REGION REPORT
ML15093A089	04/07/2015		REGION REPORT
ML15099A740	04/15/2015		REGION REPORT

Narrative:

Weatherford International reported the abandonment of two irretrievable well logging sources, including a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY20, serial #31089B) and a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY16, serial #06955B). The well is located offshore Louisiana at South Marsh Island Block 6 and is operated by Byron Energy. The well logging tool became stuck on 6/11/2014 and was abandoned on 6/17/2014. The Am-Be source is located at a measured depth of 7,623 feet and the Cs-137 source is located at a measured depth of 7,628 feet. The depth of the well is 7,737 feet. A deflection device was placed at a depth of 7,229 feet and the top of the cement plug is at 6,840 feet. A plaque will be placed at the wellhead.

Event Date: 06/11/2014

Date Reported to Agreement State:

Discovery Date: 06/11/2014

Date Reported to NRC: 06/17/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: 03030118

City: BENBROOK

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: SOUTH MARSH ISLAND BLOCK 6

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY20

IAEA Category: 3

Serial Number: 31089B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY16

IAEA Category: 4

Serial Number: 06955B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14245A619	10/27/2014		LICENSEE REPORT
ML14294A770	10/27/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #93455B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #80460B). The well is located in federal waters offshore Louisiana at Green Canyon Block 248 and is operated by Shell Oil LLC. The sources became stuck on 6/9/2014 and were abandoned on 8/13/2014. The Am-Be source is located at a measured depth of 16,065 feet and the Cs-137 source is located at a measured depth of 16,075 feet. The top of the cement plug is at a measured depth of 15,610 feet. The measured depth of the well is 16,198 feet.

Event Date: 06/09/2014

Date Reported to Agreement State:

Discovery Date: 06/09/2014

Date Reported to NRC: 08/06/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GREEN CANYON BLOCK 248

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 93455B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 80460B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14267A343	10/02/2014		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources include a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #59435B), a 296 GBq (8 Ci) Am-Be source (QSA Global model AMN.CY17, serial #5905NN/5906NN), a 8.51 kBq (230 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #G8-905), and a 5 kBq (135 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #D9-272). The well is located in Kenai Borough, Alaska, and is operated by Hilcorp Alaska, LLC. The well logging tool became stuck on 7/26/2014 and abandonment efforts were completed on 8/5/2014. The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 11,792 feet and the Am-Be source is located at a measured depth of 11,777 feet. The measured depth of the top of the cement abandonment plug is 9,400 feet. The total measured depth of the well is 11,967 feet.

Event Date: 07/26/2014

Date Reported to Agreement State:

Discovery Date: 07/26/2014

Date Reported to NRC: 07/31/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: KENAI BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 59435B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 8 Ci (296 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 5905NN/5906NN

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	G8-905		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	D9-272		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14267A259	10/02/2014		LICENSEE REPORT
ML14267A276	10/02/2014		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (QSA Global model NSR-U, serial #Q1083) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-Z, serial #A3031). The well is located in federal waters offshore Louisiana at Keathley Canyon and is operated by Chevron GOM Deepwater Exploration and Production. The well logging tool was abandoned on 8/15/2014. The Am-Be source is located at a measured depth of 30,492 feet and the Cs-137 source is located at a measured depth of 30,496 feet. The measured depth of the well is 30,671 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 08/15/2014

Date Reported to Agreement State:

Discovery Date: 08/15/2014

Date Reported to NRC: 08/15/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: KEATHLEY CANYON

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: Q1083

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A3031

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14267A288	10/02/2014		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #71057B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #80461B). The well is located in Prudhoe Bay, Alaska, and is operated by Cook Inlet Energy. The sources became stuck on 7/18/2014 and were abandoned on 7/23/2014. The Am-Be source is located at a measured depth of 18,359 feet and the Cs-137 source is located at a measured depth of 18,369 feet. The top of the cement plug is at a measured depth of 17,847 feet. The measured depth of the well is 18,459 feet.

Event Date: 07/18/2014

Date Reported to Agreement State:

Discovery Date: 07/18/2014

Date Reported to NRC: 07/21/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: PRUDHOE BAY

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 71057B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 80461B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14203A292	09/15/2014		LICENSEE REPORT
ML14247A577	09/15/2014		LICENSEE REPORT
- ML14267A325	10/02/2014		Same as ML14247A577
- ML14289A518	10/21/2014		Same as ML14247A577
ML15030A206	02/09/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source. The source (QSA Global model CDC.CY3, serial #A2624) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Ship Shoal Block 219 and was operated by Renaissance Offshore. The well logging tool became stuck on 7/14/2014 and was abandoned on 7/22/2014. The source is located at a measured depth of 9,641 feet. The measured depth of the well is 9,792 feet. A cement plug, over 200 linear feet of irretrievable drill pipe, and other components are directly above the source. A plaque will be placed at the well head.

Event Date: 07/14/2014

Date Reported to Agreement State:

Discovery Date: 07/14/2014

Date Reported to NRC: 07/19/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SHIP SHOAL BLOCK 219

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2624

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14240A376	09/02/2014		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #78040B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #73922B). The well is located in federal waters offshore Louisiana at Main Pass Block 153 and was operated by Fieldwood Energy LLC. The sources became stuck on 5/23/2014 and were abandoned on 5/29/2014. The Am-Be source is located at a measured depth of 8,872 feet and the Cs-137 source is located at a measured depth of 8,883 feet. The top of the cement plug is at a measured depth of 5,724 feet. The measured depth of the well is 10,640 feet.

Event Date: 05/23/2014

Date Reported to Agreement State:

Discovery Date: 05/23/2014

Date Reported to NRC: 05/28/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MAIN PASS BLOCK 153

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 78040B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 73922B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14189A682	08/21/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source. The source (QSA Global model CDC.CY3, serial #A2610) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Eugene Island Block 227 and was operated by Arena Offshore. The well logging tool became stuck on 6/18/2014 and was declared irretrievable on 6/21/2014. The source is located at a measured depth of 8,693 feet. The measured depth of the well is 11,718 feet. A cement plug and 360 linear feet of drill pipe were placed above the source. A plaque will be placed at the well head.

Event Date: 06/18/2014

Date Reported to Agreement State:

Discovery Date: 06/18/2014

Date Reported to NRC: 06/21/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EUGENE ISLAND BLOCK 227

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2610

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14202A107	07/22/2014		LICENSEE REPORT
ML14330A522	12/04/2014		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source. The source (QSA Global model CDC.CY3, serial #A2856) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Keathly Canyon Block 627 and was operated by Freeport McMoRan Oil & Gas. The well logging tool became stuck on 6/17/2014 and was declared irretrievable on 6/19/2014. The source is located at a measured depth of 18,936 feet. The measured depth of the well is 18,988 feet. A cement plug and 330 linear feet of drill pipe were placed above the sources. A plaque will be placed at the well head.

Event Date: 06/17/2014

Date Reported to Agreement State:

Discovery Date: 06/17/2014

Date Reported to NRC: 06/19/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: KEATHLY CANYON BLOCK 627

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2856

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14202A122	07/22/2014		LICENSEE REPORT
ML14254A059	09/16/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported abandoning a well logging tool down hole, which contained a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5337GW) and a 399.6 MBq (10.8 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #CF3774). The tool became stuck on 5/13/2014. The well is located at Ranch Creek Field, McKenzie County, North Dakota. Multiple fishing attempts were unsuccessful and they prepared to cut the drill pipe and start abandonment procedures. The measured depth of the well was 12,967 feet. The Cf-252 source was at 12,816 feet and the Cs-137 source was at 12,822 feet. The drill pipe was cut at 12,257 feet and a 400-foot cement plug was placed above the sources. Abandonment procedures were completed on 5/25/2014 and the well was sidetracked at 11,800 feet. A plaque will be attached to the well head.

Event Date: 05/13/2014

Date Reported to Agreement State: 06/12/2014

Discovery Date: 05/22/2014

Date Reported to NRC: 06/13/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: ND-33-00090-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: OKLAHOMA CITY

NRC Program Code: NA

State: OKLAHOMA

NRC Region: 4

Zip Code: 73179

Site of Event:

Site Name: MCKENZIE COUNTY

State: NORTH DAKOTA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5337GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: CF3774

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

LTR140613

06/26/2014

AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #77865B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #80200B). The well is located in federal waters offshore Louisiana at Eugene Island Block 187 and is operated by Fieldwood Energy. The sources became stuck on 5/16/2014 and abandonment efforts were completed on 5/22/2014. The Am-Be source is located at a measured depth of 14,757 feet and the Cs-137 source is located at a measured depth of 14,765 feet. The measured depth of the well is 15,187 feet. The top of the cement plug is at a measured depth of 13,314 feet.

Event Date: 05/16/2014

Date Reported to Agreement State:

Discovery Date: 05/16/2014

Date Reported to NRC: 06/14/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 187

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 77865B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 80200B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14175B019	06/26/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT

Narrative:

ProTechnics reported abandoning a 37 MBq (1 mCi) Ba-133 source (isotope Products model HEG-133, serial #C7-363) down hole in a well in LaSalle County, Texas. Abandonment procedures were completed on 4/28/2014. The source was stuck at a measured depth of 15,729 feet. A 360-foot red-dyed cement plug was set with the top at 15,420 feet. A whipstock was installed on top of the cement plug to act as a deflection device. The well will continue production above the plug. A warning plaque has been ordered to be mounted at the well head. The source was abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 04/22/2014

Date Reported to Agreement State: 04/22/2014

Discovery Date: 04/22/2014

Date Reported to NRC: 05/12/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L03835

Name: PROTECHNICS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77040

Site of Event:

Site Name: LASALLE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: BA-133

Manufacturer: ISOTOPE PRODUCTS LAB

Activity: 0.001 Ci (1 mCi or 37 MBq)

Model Number: HEG-133

IAEA Category: NA

Serial Number: C7-363

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX140028	05/27/2014		AGREEMENT STATE EVENT REPORT
- TX-I-9188	05/27/2014		Same as TX140028

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #77838B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #90677B). The well is located in federal waters offshore Louisiana at Vermillion Block 245 and is operated by Chevron USA. The sources became stuck on 4/28/2014. The Am-Be source is located at a measured depth of 7,798 feet and the Cs-137 source is located at a measured depth of 7,808 feet. The measured depth of the well is 9,208 feet. The top of the fish is at a measured depth of 3,856 feet.

Event Date: 04/28/2014

Date Reported to Agreement State:

Discovery Date: 04/28/2014

Date Reported to NRC: 04/29/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: VERMILLION BLOCK 245

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 77838B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 90677B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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ML14134A602	05/21/2014		LICENSEE REPORT
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- ML14150A557	06/04/2014		Same as ML14134A602
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LTR150318	04/01/2015		NRC LETTER
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ML15093A089	04/07/2015		REGION REPORT
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Narrative:

Pioneer Wireline Services (PWS) reported that an employee received a whole body exposure of 5.122 cSv (rem) during calendar year 2013. Preliminary exposure estimates to the hands indicated an exposure of 52 cGy (rad). PWS determined that the individual had been handling neutron and gamma well logging sources by hand rather than using a remote handling tool. In addition, another worker was identified that may have also exceeded the extremity exposure limit. Personnel interviews revealed that several individuals handled well logging sources with their hands. Several QSA Global and Gammatron sources were involved in the incident (see source table for specifics). The Kansas Department of Health and Environment (KDHE) began an investigation on 6/24/2014. Investigation by PWS and KDHE determined that one individual received a TEDE of 5.122 cSv (rem) and that another individual received a SDE of 50.14 cGy (rad). Corrective actions included improving the ALARA program, updating procedures, obtaining new equipment, and providing personnel with new and additional training.

Event Date: 12/31/2013

Date Reported to Agreement State: 03/25/2014

Discovery Date: 02/22/2014

Date Reported to NRC: 04/15/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: KS-27-B565-01

Name: PIONEER WIRELINE SERVICES

NRC Docket Number: NA

City: HAYS

NRC Program Code: NA

State: KANSAS

NRC Region: 4

Zip Code: 67601

Site of Event:

Site Name: HAYS

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EXP - OVEREXPOSURE

Event Cause:

EXP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Event IAEA Aggregate Category:

EXP

IAEA Aggregate Category: 2

Corrective Actions Information:

EXP

NEW QUALITY MANAGEMENT PLAN

PROCEDURE MODIFIED

PERSONNEL RECEIVED ADDITIONAL TRAINING

PERSONNEL RECEIVE NEW TRAINING

IMPROVE RADIOACTIVE MATERIAL LABELING AND HANDLING

Exposure Detail:**Person #:** 1

Exposure Dose: 5.122 rem (51.22 mSv)

Type of Dose: WHOLE BODY, OCCUPATIONAL

Effect:

Person #: 2

Exposure Dose: 50.14 rem (501.4 mSv)

Type of Dose: EXTREMITY, OCCUPATIONAL

Effect:

Source of Radiation:

EXP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	5 Ci (185 GBq)
Model Number:	AMN.CY3	IAEA Category:	3
Serial Number:	87921B		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	5 Ci (185 GBq)
Model Number:	AMN.CY3	IAEA Category:	3
Serial Number:	87922B		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	5 Ci (185 GBq)
Model Number:	AMN.CY3	IAEA Category:	3
Serial Number:	87920B		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	15 Ci (555 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	N-1166		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	3 Ci (111 GBq)
Model Number:	AMN.CY3	IAEA Category:	3
Serial Number:	82979B		

Source Number: 6

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	3 Ci (111 GBq)
Model Number:	AMN.CY3	IAEA Category:	3
Serial Number:	82980B		

Source Number: 7

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	5 Ci (185 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	T-105		

Source Number: 8

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	20762B		

Source Number: 9

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	13 Ci (481 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	N-1238		

Source Number: 10

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	21170B		

Source Number: 11

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	16954B		

Source Number: 12

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	15 Ci (555 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	C-712		

Source Number: 13

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	5 Ci (185 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	T-709		

Source Number: 14

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	16955B		

Device/Associated Equipment:

EXP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	AGGREGATE

Reporting Requirements:

EXP

20.2203(a)(2)(i) - Doses in excess of the occupational dose limits for adults in 20.1201.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
KS140005	04/28/2014		AGREEMENT STATE EVENT REPORT
KS140005A	06/30/2014		AGREEMENT STATE EVENT REPORT
KS140005B	07/21/2014		AGREEMENT STATE EVENT REPORT
KS140005C	09/04/2014		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #77876B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #90647B). The well is located in federal waters offshore Louisiana at South Timbalier Block 189 and is operated by Arena Offshore. The sources became stuck on 4/16/2014 and were abandoned on 4/21/2014. The Am-Be source is located at a measured depth of 12,780 feet and the Cs-137 source is located at a measured depth of 12,879 feet. The measured depth of the well is 12,846 feet. A 100-foot concrete plug was placed above the sources; the top of the fish was the deflection device.

Event Date: 04/16/2014

Date Reported to Agreement State:

Discovery Date: 04/16/2014

Date Reported to NRC: 04/19/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 189

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 77876B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 90647B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14111A486	04/25/2014		LICENSEE REPORT
ML14140A520	05/22/2014		LICENSEE REPORT
LTR150318	04/01/2015		NRC LETTER
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Weatherford International reported the abandonment of part of a well logging tool (Weatherford International) on 4/8/2014. The partial tool contained a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #H79948B) and was abandoned in a well in Crosby County, Texas. The source is estimated to be at a measured depth of 4,563 feet. A 207 foot red-dyed cement plug was placed on top of the source on 4/10/2014. A whipstock was also placed directly above the plug to serve as a deflection device. A plaque was ordered to mount at the well head. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 04/08/2014

Date Reported to Agreement State: 04/08/2014

Discovery Date: 04/08/2014

Date Reported to NRC: 04/14/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: BENBROOK

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: CROSBY COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: H79948B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: WEATHERFORD INTERNATIONAL

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX140020	04/24/2014		AGREEMENT STATE EVENT REPORT
- TX-I-9177	04/24/2014		Same as TX140020

Narrative:

Halliburton Energy Services reported the abandonment of three irretrievable well logging sources. The sources included a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #B36391B), a 4.01 kBq (108.5 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #76535), and a 3.59 kBq (96.9 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #76990). The well is located offshore Louisiana in Mississippi Canyon block 810 and is operated by Shell Offshore. The well logging tool became stuck on 2/12/2014 and abandonment procedures were completed on 2/17/2014. The sources are located at a measured depth of 20,218 feet. The measured depth of the top of the cement abandonment plug is 19,055 feet. The total measured depth of the well is 20,424 feet.

Event Date: 02/12/2014

Date Reported to Agreement State:

Discovery Date: 02/12/2014

Date Reported to NRC: 02/14/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: MISSISSIPPI CANYON BLOCK 810

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: B36391B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: ECKERT & ZIEGLER

Activity: 0.000000108 Ci (108.5 nCi or 4.0145 kBq)

Model Number: IND1402

IAEA Category: <5

Serial Number: 76535

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000096 Ci (96.9 nCi or 3.5853 kBq)
			9
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	76990		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14094A314	04/14/2014		LICENSEE REPORT
ML14258B233	09/18/2014		REGION REPORT
ML14330A522	12/04/2014		REGION REPORT

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #77860B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #90652B). The well is owned by CL&F Resources and is located at Deer Island in Terrebonne Parish, Louisiana. The sources became stuck on 3/14/2014 and permission to abandon the sources was granted on 3/17/2014. Cement and a whip-stock were placed above the sources as a deflection device. The State of Louisiana is tracking this event as LA140003.

Event Date: 03/14/2014

Date Reported to Agreement State: 03/17/2014

Discovery Date: 03/14/2014

Date Reported to NRC: 03/26/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: TERREBONNE PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 77860B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 90652B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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EN49961	04/03/2014		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
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LTR140516	05/29/2014		AGREEMENT STATE LETTER
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Narrative:

Weatherford International reported the abandonment of a well logging tool (Weatherford International) on 3/10/2014. The tool contained a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY4, serial #P31130B) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #P21135B) and was abandoned in a well in Henderson County, Texas. The tool is estimated to be at a measured depth of 14,620 feet. A directional well bore was drilled through a casing window at a measured depth of 12,300 feet. A bridge plug was set in the casing just above the window and 285 feet of red-dyed cement was placed on top of the plug. A whipstock was also placed directly above the plug at 11,974 feet to serve as a deflection device. A plaque was ordered to mount at the well head. Weatherford International currently plans to sidetrack the well above the whipstock. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 03/10/2014

Date Reported to Agreement State: 03/10/2014

Discovery Date: 03/10/2014

Date Reported to NRC: 03/11/2014

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: BENBROOK

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: HENDERSON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY4

IAEA Category: 3

Serial Number: P31130B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P21135B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: WEATHERFORD INTERNATIONAL

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX140014	03/25/2014		AGREEMENT STATE EVENT REPORT
- TX-I-9164	03/25/2014		Same as TX140014
TX140014A	04/01/2014		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source. The source (QSA Global model CDC.CY3, serial #A2648) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Ship Shoal Block 209 and was operated by EPL Oil & Gas. The well logging tool became stuck on 1/27/2014 and was declared irretrievable on 2/2/2014. The source is located at a measured depth of 9,256 feet. The measured depth of the well is 9,733 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 01/27/2014
Discovery Date: 02/02/2014

Date Reported to Agreement State:
Date Reported to NRC: 02/24/2014

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 42-00090-03
NRC Docket Number: 03006388
NRC Program Code: 03111
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: SHIP SHOAL BLOCK 209

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: CDC.CY3
Serial Number: A2648

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14066A464	03/17/2014		LICENSEE REPORT
ML14245A583	09/04/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 555 GBq (15 Ci) Am-Be source (QSA Global model AMN.CY19, serial #59455B), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #39372B), a 4.15 kBq (112.1 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial # H4-402), and a 3.61 kBq (97.68 nCi) Cs-137 source (Eckert & Ziegler model IND1402, serial #H6-122). The well is located in East Breaks 646 and is operated by Anadarko Petroleum Corporation. The well logging tool became stuck on 2/28/2014 and abandonment procedures were completed on 3/5/2014. The Am-Be source is located at a measured depth of 10,767 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 10,752 feet. Four cement abandonment plugs were poured. The measured depth of the top of the last cement abandonment plug is 9,862 feet. The total measured depth of the well is 10,876 feet.

Event Date: 02/28/2014

Date Reported to Agreement State:

Discovery Date: 02/28/2014

Date Reported to NRC: 03/01/2014

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: EAST BREAKS 646

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY19

IAEA Category: 3

Serial Number: 59455B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 39372B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000112 Ci (112.1 nCi or 4.1477 kBq)
			1
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	H4-402		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000097 Ci (97.68 nCi or 3.61416 kBq)
			68
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	H6-122		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML14066A469	03/14/2014		LICENSEE REPORT
- ML14071A257	03/17/2014		Same as ML14066A469
ML14105A480	04/22/2014		LICENSEE REPORT
ML14122A297	05/07/2014		REGION REPORT
ML14258B233	09/18/2014		REGION REPORT
ML14330A522	12/04/2014		REGION REPORT
ML15093A089	04/07/2015		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of a well logging tool (Halliburton) down hole on 12/17/2013 in Webb County, Texas. The tool contained a 555 GBq (15 Ci) Am-Be source (Gamma Industries model AN-HP, serial #DSN 365), a 55.5 GBq (1.5 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #5049 GW), and two small check sources in Webb County, Texas. The top of the logging tool is at a depth of 8433 feet. A 400-foot red-dyed cement plug was placed above the tool and a whipstock was set above the cement plug. A permanent plaque was ordered for placement at the well head. The sources were abandoned in accordance with the Texas Railroad Commission and Department of State Health Services regulations.

Event Date:	12/17/2013	Date Reported to Agreement State:	12/17/2013
Discovery Date:	12/17/2013	Date Reported to NRC:	12/17/2013

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L02113	Name:	HALLIBURTON ENERGY SERVICES
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77032

Site of Event:

Site Name:	WEBB COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMA INDUSTRIES	Activity:	15 Ci (555 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	DSN 365		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY6	IAEA Category:	4
Serial Number:	5049 GW		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	NR
Manufacturer:	NR	Activity:	NR
Model Number:	NR	IAEA Category:	NR
Serial Number:	NR		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	NR
Manufacturer:	NR	Activity:	NR
Model Number:	NR	IAEA Category:	NR
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	HALLIBURTON	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130051	01/09/2014		AGREEMENT STATE EVENT REPORT
- TX-I-9143	01/09/2014		Same as TX130051
TX130051A	01/09/2014		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of a well logging tool that contained a 592 GBq (16 Ci) Am-Be source (Monsanto Research model NSR-F, serial #A2493) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5365). The tool was stuck downhole on 11/7/2013 in Kent County, Texas. Schlumberger stated that during the retrieval attempt, the tool separated and the section containing the Cs-137 source remained downhole. When the upper section of the tool was returned to the surface the Am-Be source was missing. Schlumberger attempted to locate the Am-Be source by logging the well again, but that logging tool became stuck. The tool was retrieved and it was decided to place a whipstock above the last location of the tool at 6,847 feet, and then place a red-dyed cement plug above that. The well owner intended to produce the well above the cement plug. While attempting to place the whipstock above the logging tool, the whipstock became stuck at 6,125 feet. It was then decided to place a 100-foot red-dyed cement plug above the whipstock. A second plug of 500 feet of cement will be placed from 4,300 feet up. A third plug will be set and the well side-tracked at 3,900 feet. The sources were abandoned in accordance with the Texas Railroad Commission and Department of State Health Services regulations.

Event Date: 11/07/2013

Date Reported to Agreement State: 11/07/2013

Discovery Date: 11/07/2013

Date Reported to NRC: 11/15/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: KENT COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2493

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A5365		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	SCHLUMBERGER	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130046	11/27/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9135	11/27/2013		Same as TX130046
TX130046A	12/23/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9135A	12/23/2013		Same as TX130046A

Narrative:

ThruBit reported that a 59.2 GBq (1.6 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3234) was abandoned downhole in a well in Crane County, Texas. The source was in a logging tool (ThruBit) that had become stuck in the well at a point where the well shaft went from vertical to horizontal. During the retrieval process, the lower portion of the logging tool separated from the upper portion and dropped to the horizontal section of the well. The bore hole was lined with steel casing and a red-dyed cement plug was placed between the casing and the bore hole to secure the source in position. The well was logged to verify the position of the source and the well will not be produced near that location. A plaque will be placed at the well head. The source was abandoned in accordance with procedures.

Event Date:	10/04/2013	Date Reported to Agreement State:	10/04/2013
Discovery Date:	10/04/2013	Date Reported to NRC:	10/22/2013

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L06030	Name:	THRUBIT
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77041

Site of Event:

Site Name:	CRANE COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.6 Ci (59.2 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A3234		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	THRUBIT	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130041	10/30/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9124	10/30/2013		Same as TX130041
TX130041A	11/19/2013		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services requested approval to abandon two irretrievable well logging sources. The sources included a 555 GBq (15 Ci) Am-Be source (serial #65612B) and a 74 GBq (2 Ci) Cs-137 source (serial #42276B). The well is located in South Timbalier Block 59 and is operated by LLOG Exploration. The well logging tool (serial # 11693704) became stuck on 9/17/2013. The Am-Be source is located at a measured depth of 22,082 feet and the Cs-137 source is located at a measured depth of 22,094 feet. The total measured depth of the well is 22,168 feet. Abandonment plans include a 600-foot balanced cement plug on top of the assembly, with 832 feet of drill string above the sources.

Event Date: 09/17/2013

Date Reported to Agreement State:

Discovery Date: 09/17/2013

Date Reported to NRC: 09/25/2013

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 59

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 15 Ci (555 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 65612B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 42276B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: 11693704

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13297A111	10/28/2013		LICENSEE REPORT
ML14122A297	05/07/2014		REGION REPORT
ML14258B233	09/18/2014		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2966) and a 370 GBq (10 Ci) Am-Be source (QSA Global model NSR-U, serial #Q1073). The well is located in federal waters offshore Louisiana at Keathley Canyon Block 93 and was operated by BP Production and Exploration. The well logging tool was declared irretrievable on 9/25/2013 and was abandoned on 9/29/2013. The Cs-137 source is located at a measured depth of 27,270 feet and the Am-Be source is located at a measured depth of 27,266 feet. The measured depth of the well is 27,463 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 09/25/2013

Date Reported to Agreement State:

Discovery Date: 09/25/2013

Date Reported to NRC: 09/25/2013

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: KEATHLEY CANYON BLOCK 93

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2966

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: Q1073

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13297A091	10/25/2013		NRC LETTER
ML13297A155	10/25/2013		LICENSEE REPORT
ML14122A297	05/07/2014		REGION REPORT

Narrative:

Allied Wireline Services reported the abandonment of a stuck well logging tool downhole on 8/5/2013. The tool contained a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY17, serial #70996B) and a 407 MBq (11 mCi) Cf-252 source (QSA Global model CVN.CY2, serial #93771B). The well is operated by XTO Energy and is located at McElroy Ranch in Upton County, Texas. The sources were abandoned at a depth of approximately 10,527.5 feet. A red-dyed cement plug was set with top at 10,135 feet. A plaque has been ordered to mount at the well head.

Event Date: 08/05/2013

Date Reported to Agreement State: 08/06/2013

Discovery Date: 08/05/2013

Date Reported to NRC: 10/03/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06374

Name: ALLIED WIRELINE SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77042

Site of Event:

Site Name: UPTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY17

IAEA Category: 4

Serial Number: 70996B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: QSA GLOBAL, INC.

Activity: 0.011 Ci (11 mCi or 407 MBq)

Model Number: CVN.CY2

IAEA Category: 4

Serial Number: 93771B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130038	10/15/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9102	10/15/2013		Same as TX130038
TX130038A	02/03/2014		AGREEMENT STATE EVENT REPORT

Narrative:

ThruBit reported abandoning a 59.57 GBq (1.61 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3213) downhole in a well located in Cherokee County, Texas. The source was abandoned at a depth of 8,216 feet. A whipstock was set at a depth of 7,616 feet and 500 feet of red-dyed cement was placed above the source, in addition to 200 feet of conventional cement. A plaque was ordered for the wellhead.

Event Date:	07/15/2013	Date Reported to Agreement State:	08/10/2013
Discovery Date:	07/15/2013	Date Reported to NRC:	09/11/2013

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L06030	Name:	THRUBIT
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77041

Site of Event:

Site Name:	CHEROKEE COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.61 Ci (59.57 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A3213		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	SKID
Manufacturer:	THRUBIT	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130032	09/24/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9111	09/24/2013		Same as TX130032

Narrative:

ThruBit reported the loss and recovery of a 65.86 GBq (1.78 Ci) Cs-137 well logging source (QSA Global model CDC.CY3, serial #A3353). On 7/28/2013, a well-logging crew finished operations at a well site in Colorado and removed the logging tool from the well around noon. Seventeen hours later, the logging crew discovered that the source was missing from the tool. They returned to the well site and recovered the source from the ground. The source had fallen out of the logging tool while the tool was being returned to the logging truck. ThruBit investigated the incident and determined that the highest exposed member of the public had an estimated whole body exposure of 509 μ Sv (50.9 mrem), with a probable exposure of 378 μ Sv (37.8 mrem). The highest exposed occupational worker had an estimated whole body exposure of 2.69 cSv (rem), with a probable exposure of 1.08 cSv (rem). The well logging supervisor and well logging assistant both handled the source directly. ThruBit performed an extremity dose estimate for the two and identified that the supervisor received approximately 45.6 cSv (rem), while the assistant received approximately 0.73 cSv (rem). Medical evaluations and blood analysis for both individuals revealed no abnormalities. Corrective actions included terminating the employment of personnel, modifying procedures, providing additional training to personnel, and posting new signage.

Event Date: 07/28/2013

Date Reported to Agreement State: 07/29/2013

Discovery Date: 07/29/2013

Date Reported to NRC: 07/30/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CO-1179-01

Name: THRUBIT

NRC Docket Number: NA

City: BRIGHTON

NRC Program Code: NA

State: COLORADO

NRC Region: 4

Zip Code: 80603

Site of Event:

Site Name: BRIGHTON

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PERSONNEL TERMINATED

PROCEDURE MODIFIED

PERSONNEL RECEIVED ADDITIONAL TRAINING

IMPROVE RADIOACTIVE MATERIAL LABELING AND HANDLING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3353

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN49224	08/12/2013		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
CO13-I13-08	09/23/2013		AGREEMENT STATE EVENT REPORT
CO13-I13-08A	11/22/2013		AGREEMENT STATE EVENT REPORT
LTR140331	03/31/2014		AGREEMENT STATE LETTER
CO13-I13-08B	05/28/2014		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source. The source (AEA Technologies model GGLS-DA, serial #A2584) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Green Canyon Block 385 and was operated by ENI US Operating Company. The well logging tool became stuck on 6/23/2013 and was abandoned on 6/30/2013. The source is located at a measured depth of 13,240 feet. The measured depth of the well is 13,321 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 06/23/2013

Date Reported to Agreement State:

Discovery Date: 06/23/2013

Date Reported to NRC: 06/28/2013

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 385

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GGLS-DA

IAEA Category: 4

Serial Number: A2584

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13207A409	07/31/2013		LICENSEE REPORT
ML14258B233	09/18/2014		REGION REPORT
ML15093A089	04/07/2015		REGION REPORT
ML15099A738	04/15/2015		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5089GW) and a 399.6 MBq (10.8 mCi) Cf-252 source (Frontier Technology model FTC-CF, serial #2644). The well is located in federal waters offshore Louisiana at South March Island Block 166 and was operated by Pisces Energy. The well logging tool became stuck on 5/9/2013 and was abandoned on 5/22/2013. The Cs-137 source is located at a measured depth of 11,288 feet and the Cf-252 source is located at a measured depth of 11,283 feet. The measured depth of the well is 11,343 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 05/09/2013

Date Reported to Agreement State:

Discovery Date: 05/09/2013

Date Reported to NRC: 05/10/2013

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SOUTH MARCH ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5089GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: FTC-CF

IAEA Category: 4

Serial Number: 2644

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13207A406	07/31/2013		LICENSEE REPORT
ML14258B233	09/18/2014		REGION REPORT

Narrative:

Century Geophysical Corporation reported abandoning a 222 GBq (6 Ci) Am-Be source (Gammatron model AN-HP, serial #N-1321) downhole on 5/28/2013. The well is owned by Quatro Oil & Gas and is located in Wichita County, District 9, WVFL Subdivision Block 27. Abandonment procedures were followed and red-dyed cement was placed from 3,700 feet to 3,393 feet. A 6.25 inch drill bit was placed, inverted, at the top of the cement as a deflection device. A second plug was installed in the annulus between the 7 and 10 inch casing, and inside the 7 inch casing. The bottom of the plug is at approximately 162 feet. The cement was returned to the surface, both in the annulus and inside the casing. A plaque was permanently attached at the wellhead.

Event Date: 05/28/2013

Date Reported to Agreement State: 05/28/2013

Discovery Date: 05/28/2013

Date Reported to NRC: 07/02/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NRCAS

License Number: 35-04017-04

Name: CENTURY GEOPHYSICAL CORP.

NRC Docket Number: 03011376

City: TULSA

NRC Program Code: 03111

State: OKLAHOMA

NRC Region: 4

Zip Code: 74115

Site of Event:

Site Name: WICHITA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 6 Ci (222 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-1321

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130026	07/11/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9086	07/11/2013		Same as TX130026

Narrative:

Schlumberger Technology Corporation reported abandoning a well logging tool (Schlumberger model ADN4, serial #2273) downhole on 5/21/2013. The tool contained a 370 GBq (10 Ci) Am-Be source (Gammatron model AN-HP, serial #N371) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2200). The Am-Be source was abandoned at 7,902 feet and the Cs-137 source was abandoned at 7,902 feet. The oil well was 7,968 feet deep and is located in Franklin County, Texas. The drill pipe became stuck on 5/14/2013. Schlumberger made unsuccessful attempts to free the pipe followed by three unsuccessful attempts to retrieve the sources from the logging while drilling (LWD) tool. Red-dyed cement was pumped through the inside of the drill pipe and up the open hole annulus to 7,500 feet to cement the LWD bottom hole assembly in place and to seal and isolate the sources. The drill pipe was cut at 6,513 feet, leaving 1,389 linear feet of heavy weight drill collars and drill pipe on top of the sources to serve as a deflection device and prevent inadvertent intrusion. A second cement plug was then set and the well will be sidetracked. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations. A plaque was ordered for the well head.

Event Date: 05/14/2013

Date Reported to Agreement State: 05/21/2013

Discovery Date: 05/21/2013

Date Reported to NRC: 06/05/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: FRANKLIN COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-371

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A2200		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	ADN4
Manufacturer:	SCHLUMBERGER	Serial Number:	2273

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130022	06/24/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9081	06/24/2013		Same as TX130022

Narrative:

Halliburton Energy Services reported abandoning a well logging tool (Halliburton) downhole on 5/29/2013. The tool contained a 703 GBq (19 Ci) Am-Be source (AEA Technologies model AMN.CY19, serial #0346NN), a 74 GBq (2 Ci) Cs-137 source (AEA Technologies model CDC.CY13, serial #12640B), a 4.08 kBq (110.4 nCi) Cs-137 source (North American Scientific model IND1402, serial #123416), and a 3.55 kBq (96 nCi) Cs-137 source (North American Scientific model IND1402, serial #129775). The well site is located offshore from Galveston, Texas. A 1,300-foot red-dyed cement plug was placed at 8,525 feet, the bottom of the well hole, and encompassed the logging tool. A second 500-foot red-dyed cement plug was set at 3,769 feet and a 200-foot cement plug was set at 375 feet. A plaque was ordered for the wellhead. The well will not be produced.

Event Date: 05/29/2013

Date Reported to Agreement State: 05/29/2013

Discovery Date: 05/29/2013

Date Reported to NRC: 05/31/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GALVESTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 19 Ci (703 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 0346NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 12640B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000000110 Ci (110.4 nCi or 4.0848 kBq)
			4
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	123416		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NORTH AMERICAN SCIEN	Activity:	0.000000096 Ci (96 nCi or 3.552 kBq)
Model Number:	IND1402	IAEA Category:	<5
Serial Number:	129775		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	HALLIBURTON	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130021	06/17/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9087	06/17/2013		Same as TX130021

Narrative:

Baker Hughes Oil Field Operations reported the abandonment of three irretrievable well logging sources, including a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #N924), a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #24487B), and an 11.5 kBq (0.31 µCi) Cs-137 source (Saint Gobain ECS model 400-4765, serial #67203). The well is owned by Apache Corporation and is located in Oldham County, Texas. Baker Hughes spent eight days fishing for the tool without success. The tool was abandoned at a depth from 9,613 to 9,624 feet. Approximately 125 feet of red-dyed cement was placed above the tool and a whipstock packer was placed as a deflection device. A plaque was ordered and will be placed at the wellhead. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 04/07/2013

Date Reported to Agreement State: 04/07/2013

Discovery Date: 04/07/2013

Date Reported to NRC: 04/25/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04452

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: OLDHAM COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-924

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 24487B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.00000031 Ci (310 nCi or 11.47 kBq)
Model Number:	400-4765	IAEA Category:	5
Serial Number:	67203		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130017	05/09/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9068	05/09/2013		Same as TX130017

Narrative:

Allied Wireline Services reported the abandonment of a stuck well logging tool downhole on 3/16/2013. The tool contained a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY17, serial #70348B) and a 407 MBq (11 mCi) Cf-252 source (QSA Global model CVN.CY2, serial #66008B). The well is located in Reagan County, Texas. The sources were abandoned at a depth of approximately 6,290 feet. A 600-foot red-dyed cement plug and whipstock were placed above the tool to prevent intrusion.

Event Date: 03/16/2013

Date Reported to Agreement State: 03/16/2013

Discovery Date: 03/16/2013

Date Reported to NRC: 04/15/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06374

Name: ALLIED WIRELINE SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77042

Site of Event:

Site Name: REAGAN COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY17

IAEA Category: 4

Serial Number: 70348B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: QSA GLOBAL, INC.

Activity: 0.011 Ci (11 mCi or 407 MBq)

Model Number: CVN.CY2

IAEA Category: 4

Serial Number: 66008B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX130016	04/24/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9053	04/24/2013		Same as TX130016
TX130016A	04/24/2013		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported that a logging tool containing four sealed sources was stuck downhole on 3/18/2013. Following fishing operations through 3/22/2013, it was determined the sources could not be retrieved. The tool string contained a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP MP-35N, serial #DSN-361), a 65.86 GBq (1.78 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5521GW), a 59.2 MBq (1.6 mCi) Cs-137 source (QSA Global model CDC.PLS, serial #SU836 PULSAR), and an 18.5 kBq (500 nCi) Cs-137 source (QSA Global model VZ2134, serial #SU836 PULSAR). The well is owned by Central Resources, Incorporated (CRI), and is located in Kern County, California. The sources are located at a depth of between 10,216 and 10,226 feet. CRI intends to drill sidetrack the well. The drill pipe will be cut at 10,162 feet to disengage from the stuck logging tool, a 150 foot plug of red cement added, and the well sidetracked from 9,900 feet. A permanent identification plaque will be installed at the top of the well.

Event Date: 03/18/2013

Date Reported to Agreement State: 03/22/2013

Discovery Date: 03/22/2013

Date Reported to NRC: 03/25/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0782-15

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93307

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: 361

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5521GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0016 Ci (1.6 mCi or 59.2 MBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	SU836 PULSAR		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	VZ2134	IAEA Category:	5
Serial Number:	SU836 PULSAR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1827	04/11/2013		AGREEMENT STATE EVENT REPORT
- CA-032213	04/11/2013		Same as CA-XCA1827
LTR130701	07/08/2013		AGREEMENT STATE LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #3175) and a 592 GBq (16 Ci) Am-Be source (Gammatron model AN-HP, serial #G5001). The well is located in federal waters offshore Louisiana at Green Canyon Block 727 and was operated by Anadarko Petroleum Corporation. The well logging tool became stuck on 12/25/2012 and was abandoned on 1/5/2013. The Cs-137 source is located at a measured depth of 25,785 feet and the Am-Be source is located at a measured depth of 25,764 feet. The measured depth of the well is 27,290 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 12/25/2012

Date Reported to Agreement State:

Discovery Date: 12/25/2012

Date Reported to NRC: 12/31/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 727

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: G-5001

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: 3175

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13036A552	02/25/2013		LICENSEE REPORT
ML13060A207	03/06/2013		REGION REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable well logging source (QSA Global model CDC.CY3, serial #A2559) that contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located in Prudhoe Bay, Alaska, and was operated by Apache Alaska Corporation. The source became stuck downhole on 1/11/2013 at a depth of 11,190 feet. Fishing attempts were conducted until 1/15/2013, but were unsuccessful. On 1/19/2013, several hundred feet of cement was pumped above the source string and 209 feet of drill pipe remained as a deflection device. A plaque was ordered and will be placed at the well head. The well was sidetracked at a depth of 10,515 feet and drilling continued.

Event Date: 01/11/2013

Date Reported to Agreement State:

Discovery Date: 01/11/2013

Date Reported to NRC: 01/17/2013

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: PRUDHOE BAY

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2559

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML13036A574	02/20/2013		LICENSEE REPORT
ML13060A207	03/05/2013		REGION REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model SMN.CY3, serial #SS41801B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #SS49259B). The well is located in the South Ellwood Field adjoining the City of Goleta, California.

Event Date:	01/07/2013	Date Reported to Agreement State:	01/07/2013
Discovery Date:	01/07/2013	Date Reported to NRC:	02/06/2013

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	ASAS
License Number:	LA-6025-L01	Name:	BAKER HUGHES
NRC Docket Number:	NA	City:	LAFAYETTE
NRC Program Code:	NA	State:	LOUISIANA
NRC Region:	4	Zip Code:	70508

Site of Event:

Site Name:	GOLETA	State:	CALIFORNIA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	QSA GLOBAL, INC.	Activity:	5 Ci (185 GBq)
Model Number:	SMN.CY3	IAEA Category:	3
Serial Number:	SS41801B		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2.5 Ci (92.5 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	SS49259B		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1811	02/19/2013		AGREEMENT STATE EVENT REPORT
- CA-010713	02/19/2013		Same as CA-XCA1811
LTR130610	06/25/2013		AGREEMENT STATE LETTER
LTR140516	05/29/2014		AGREEMENT STATE LETTER
LTR141112	11/26/2014		AGREEMENT STATE LETTER

Narrative:

Halliburton Energy Services (HES) reported that a well logging tool became stuck in a wellbore on 10/10/2012. The well site is located in Uintah County, Utah. The tool contained a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-362), a 55.5 GBq (1.5 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #18265B), a 0.059 MBq (1.6 µCi) Cs-137 source (AEA Technologies model CDC.PLS, serial #NK651), and a 0.019 MBq (0.5 µCi) Cs-137 source (AEA Technologies model CDC.PLS, serial #NK646). HES attempted to fish for the tool from 10/11 to 10/19/2012 without success. HES requested approval for abandonment of the tool and decided to cease fishing operations on 10/19/2012. The well owner placed two red-dyed cement plugs, each approximately 500 feet deep, above the tool. A whipstock was also placed at the top of the two cement plugs as a deflection device. Sidetrack drilling was planned to begin above the whipstock and would allow for a lateral separation of 84 feet or more from the abandoned tool. Abandonment procedures were completed on 10/20/2012 and a plaque was ordered to be placed at the wellhead.

Event Date: 10/10/2012

Date Reported to Agreement State: 10/16/2012

Discovery Date: 10/10/2012

Date Reported to NRC: 02/04/2013

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: UT2400026

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: UINTAH COUNTY

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN-362

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 18265B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	0.0000016 Ci (1.6 μ Ci or 59.2 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	NK651		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	CDC.PLS	IAEA Category:	5
Serial Number:	NK646		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
UT120003	02/14/2013		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #2163) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5455). The sources were stuck downhole on 11/20/2012 at depths of 12,658 and 12,670 feet, respectively. The sources were abandoned on 12/18/2012. Approximately 381 linear feet of red-dyed cement was used as a plug and a drill bit was set as a deflection device at 12,270 feet. The sources were abandoned in accordance with the Texas Railroad Commission and Texas Department of State Health Services regulations.

Event Date: 11/20/2012

Date Reported to Agreement State: 12/18/2012

Discovery Date: 12/18/2012

Date Reported to NRC: 12/20/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: NUECES COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: 2163

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5455

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120048	01/04/2013		AGREEMENT STATE EVENT REPORT
- TX-I-9018	01/04/2013		Same as TX120048

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 684.5 GBq (18.5 Ci) Am-Be source (QSA Global model AMN.CY19, serial #0019NN), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #49323B), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model A3024, serial #B6-677 and B6-678). The well is located in South Timbalier Block 67 and operated by Energy XXI. The well logging tool became stuck on 6/26/2012 and abandonment efforts were completed on 7/4/2012. The Am-Be source is located at a measured depth of 16,543 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 16,526 feet. The measured depth of the top of the cement abandonment plug is 15,200 feet. The total measured depth of the well is 16,615 feet.

Event Date: 06/26/2012

Date Reported to Agreement State:

Discovery Date: 06/26/2012

Date Reported to NRC: 06/30/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 67

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 18.5 Ci (684.5 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 0019NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 49323B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	A3024	IAEA Category:	5
Serial Number:	B6-677		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	A3024	IAEA Category:	5
Serial Number:	B6-678		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12291A746	10/18/2012		LICENSEE REPORT
ML12304A064	11/07/2012		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #71058B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #71918B). The well is located in federal waters offshore Louisiana at Eugene Island Block 330 and operated by Apache Corporation. The sources became stuck on 7/29/2012 and were abandoned on 8/4/2012. The Am-Be source is located at a measured depth of 13,533 feet and the Cs-137 source is located at a measured depth of 13,544 feet. The top of the cement plug is at a measured depth of 11,665 feet. The measured depth of the well is 13,596 feet.

Event Date: 07/29/2012

Date Reported to Agreement State:

Discovery Date: 07/29/2012

Date Reported to NRC: 08/02/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 330

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 71058B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 71918B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12291A755	10/18/2012		LICENSEE REPORT
ML12304A064	11/07/2012		NRC LETTER
LTR140516	05/29/2014		AGREEMENT STATE LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5153) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5397). The well is located in a remote area in north-western Colorado. The sources were stuck downhole on 8/28/2012 at a depth of 15,839 feet. Fishing attempts were conducted until 9/6/2012, but were unsuccessful. Several hundred feet of cement was pumped above the source string and a deflection device was placed above the cement plug. A plaque was ordered and will be placed at the well head. Abandonment procedures were completed on 9/8/2012. The well was sidetracked at a depth of 13,885 feet and drilling continued.

Event Date: 08/28/2012

Date Reported to Agreement State: 09/06/2012

Discovery Date: 08/28/2012

Date Reported to NRC: 10/03/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CO-039-01

Name: SCHLUMBERGER TECHNOLOGIES CORP.

NRC Docket Number: NA

City: GREENWOOD VILLAGE

NRC Program Code: NA

State: COLORADO

NRC Region: 4

Zip Code: 80111

Site of Event:

Site Name: NR

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5153

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5397

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

CO12-I12-21

10/16/2012

AGREEMENT STATE EVENT REPORT

Narrative:

Thrubit reported that a well logging tool containing three radioactive sources was abandoned downhole on 8/7/2012. The three sources included a 60.68 GBq (1.64 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3250) and two 3.7 kBq (100 nCi) Cs-137 sources (Saint-Gobain model 6G1-CS137-XM, serial #18538 and 18492). The sources were abandoned in the Wise County well at a depth of 5,522 feet. The sources were abandoned in accordance with the Texas Railroad Commission and Texas Department of State Health Services Agency regulations.

Event Date: 08/07/2012
Discovery Date: 08/07/2012

Date Reported to Agreement State: 08/07/2012
Date Reported to NRC: 09/10/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L06030
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: THRUBIT
City: HOUSTON
State: TEXAS
Zip Code: 77041

Site of Event:

Site Name: WISE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: CDC.CY3
Serial Number: A3250

Radionuclide: CS-137
Activity: 1.64 Ci (60.68 GBq)
IAEA Category: 4

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: SAINT-GOBAIN
Model Number: 6G1-CS137-XM
Serial Number: 18538

Radionuclide: CS-137
Activity: 0.0000001 Ci (100 nCi or 3.7 kBq)
IAEA Category: <5

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	6G1-CS137-XM	IAEA Category:	<5
Serial Number:	18492		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120032	09/24/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8974	09/24/2012		Same as TX120032

Narrative:

Thrubit reported that a well logging tool containing three radioactive sources was abandoned downhole on 8/21/2012. The three sources included a 60.68 GBq (1.64 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3198) and two 3.7 kBq (100 nCi) Cs-137 sources (Saint-Gobain model 6G1-CS137-XM, serial #18600 and 18618). The sources were abandoned in the Glasscock County well at a depth of 11,415 feet. A non-drillable plate was set in the well at a depth of 10,496 feet and a 1,970 foot red-dyed cement plug was placed above the plate. The sources were abandoned in accordance with the Texas Railroad Commission and Texas Department of State Health Services Agency regulations.

Event Date: 08/21/2012

Date Reported to Agreement State: 08/21/2012

Discovery Date: 08/21/2012

Date Reported to NRC: 09/07/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06030

Name: THRUBIT

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: GLASSCOCK COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.64 Ci (60.68 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3198

Source Number: 2

Source/Radioactive Material: SEALED SOURCE GAUGE

Radionuclide: CS-137

Manufacturer: SAINT-GOBAIN

Activity: 0.0000001 Ci (100 nCi or 3.7 kBq)

Model Number: 6G1-CS137-XM

IAEA Category: <5

Serial Number: 18600

Source Number: 3

Source/Radioactive Material: SEALED SOURCE GAUGE
Manufacturer: SAINT-GOBAIN
Model Number: 6G1-CS137-XM
Serial Number: 18618

Radionuclide: CS-137
Activity: 0.0000001 Ci (100 nCi or 3.7 kBq)
IAEA Category: <5

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120033	09/20/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8980	09/24/2012		Same as TX120033
TX120033A	09/20/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8980A	09/24/2012		Same as TX120033A
LTR121120	12/03/2012		AGREEMENT STATE LETTER

Narrative:

Halliburton Energy Services (HES) reported the loss and recovery of a 555 GBq (15 Ci) Am-Be well logging source (Gammatron model AN-HP, serial #DSN-355). The source had been used early in the day on 9/11/2012, during well operations at a well site near Pecos, Texas. The well logging crew left the Pecos site and traveled about 130 miles to a well site near Odessa, Texas. The crew did not stop for any reason between well sites. When the crew arrived at the Odessa site, they discovered that the source was missing. The source transport container lock and plug were not in place. The lock was found in the storage compartment in the back of the truck and the plug was not in the container. They returned to the Pecos well site and searched for the source, but did not find it. HES formed a search group to look for the source along the roadway between the two sites, but that group did not find the source. HES searched the Pecos well site two additional times and also used a scintillation survey instrument to aid in the search, but the source was not located. HES performed daily searches for the source. The searches were augmented by the Texas Military Force's Sixth Civil Support Team and the EPA's Aerial Spectrophotometric Environmental Collection Technology aircraft. The source was found on 10/4/2012 by a member of the public. The individual contacted HES, who took possession of the source. The source was leak tested, visually inspected, and determined undamaged. The Texas Department of State Health Services (DSHS) interviewed the individual on 10/12/2012. The individual stated that he had found the source eight miles from the well site, in the opposite direction the HES crew traveled. HES performed personnel interviews, but was not able to determine how the source could have been lost. DSHS determined that the individual received a whole body dose of 0.518 mSv (51.8 mrem) and an extremity dose of 9.72 mSv (972 mrem). However, it was concluded that the individual had not received greater than 1 mSv (100 mrem). Corrective actions taken by HES included procedure modifications and providing additional training to personnel.

Event Date: 09/11/2012

Date Reported to Agreement State: 09/11/2012

Discovery Date: 09/11/2012

Date Reported to NRC: 09/12/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: PECOS

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

PERSONNEL RECEIVED ADDITIONAL TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	15 Ci (555 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	DSN-355		

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

GREATER THAN 10 CI - NOT H-3
MATERIAL LOST AND FOUND
TRILATERAL TO MEXICO

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN48300	09/14/2012		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
EN48300A	09/14/2012		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8988	09/14/2012		AGREEMENT STATE EVENT REPORT
TX-I-8988A	09/14/2012		AGREEMENT STATE EVENT REPORT
TX-I-8988B	09/14/2012		AGREEMENT STATE EVENT REPORT
EN48300B	10/09/2012		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8988C	10/09/2012		AGREEMENT STATE EVENT REPORT
TX130003	02/11/2013		AGREEMENT STATE EVENT REPORT
LTR130506	05/20/2013		AGREEMENT STATE LETTER
TX130003A	05/20/2013		AGREEMENT STATE EVENT REPORT
ML13149A083	06/26/2013		ABNORMAL OCCURRENCE REPORT
ML13225A395	08/29/2013		ABNORMAL OCCURRENCE REPORT

Narrative:

ThruBit reported the abandonment of three irretrievable well logging sources in a well in Cherokee County, Texas. Included in the abandonment were a 59.57 GBq (1.61 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3213) and two 3.7 kBq (100 nCi) Cs-137 sources (Saint Gobain model 6G1-CS137-XM, serial #18620 and 18628). A 500-foot red-dyed cement plug and 200 feet of conventional cement was placed above the sources. A whipstock was also placed above the cement plugs to prevent intrusion. ThruBit will sidetrack the well. A plaque will be placed at the wellhead. The sources were abandoned in accordance with the Texas Railroad Commission and Texas Department of State Health Services regulations.

Event Date: 07/15/2012

Date Reported to Agreement State: 07/15/2012

Discovery Date: 07/15/2012

Date Reported to NRC: 08/09/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06030

Name: THRUBIT

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: CHEROKEE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.61 Ci (59.57 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3213

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SAINT-GOBAIN

Activity: 0.0000001 Ci (100 nCi or 3.7 kBq)

Model Number: 6G1-CS137-XM

IAEA Category: <5

Serial Number: 18620

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	6G1-CS137-XM	IAEA Category:	<5
Serial Number:	18628		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	THRUBIT	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120028	08/22/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8977	08/22/2012		Same as TX120028

Narrative:

Schlumberger Technology Corporation reported the abandonment of three irretrievable well logging sources, including two 592 GBq (16 Ci) Am-Be sources (Gammatron model #NSR-F, serial #G5187 and G5084) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #GSRJ-A5336). The two Am-Be sources were determined to be at a depth of 13,921 and 13,935 feet. The Cs-137 source was at a depth of 13,946 feet. The well is located in Upton County, Texas. Abandonment procedures began on 7/14/2012. A 155-foot red-dyed cement plug was placed above the well logging tool from 11,300 to 11,145 feet. A deflection device was placed above the cement plug. A plaque has been ordered for placement at the well head. The well will be produced above the logging tool and sources. The sources were abandoned in accordance with the Texas Railroad Commission and Department of State Health Services regulations.

Event Date: 07/14/2012

Date Reported to Agreement State: 07/16/2012

Discovery Date: 07/14/2012

Date Reported to NRC: 08/03/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: UPTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5187

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5084

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A5336		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	SCHLUMBERGER	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120027	08/17/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8968	08/17/2012		Same as TX120027
TX120027A	08/28/2012		AGREEMENT STATE EVENT REPORT
TX120027B	09/06/2012		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of three irretrievable well logging sources, including a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #36397B), a 5 kBq (135 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #I3-568), and a 8.51 kBq (230 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #H1-549). The well is located in Leon County, Texas. Halliburton placed 348 feet of red-dyed cement and 3,213 feet of drill pipe above the sources to prevent intrusion. The sources were abandoned according with the Texas Railroad Commission and Texas Department of Health regulations.

Event Date: 06/28/2012

Date Reported to Agreement State: 06/28/2012

Discovery Date: 06/28/2012

Date Reported to NRC: 08/02/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: LEON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 36397B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: ECKERT & ZIEGLER

Activity: 0.000000135 Ci (135 nCi or 4.995 kBq)

Model Number: A3888

IAEA Category: <5

Serial Number: I3-568

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	H1-549		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	HALLIBURTON	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120026	08/16/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8966	08/16/2012		Same as TX120026

Narrative:

Halliburton Energy Services reported two irretrievable well logging sources, including a 703 GBq (19 Ci) Am-Be source (AEA Technologies model AMN.CY19, serial #0099NN) and a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13serial #46184B). The well is located in Mobile County, Alabama. The well logging tool became stuck on 7/17/2012 at approximately 12,500 feet below the surface. Alabama Office of Radiation Control (AORC) personnel were dispatched to the site. Fishing operations were conducted from 7/18 through 7/20/2012 without success. A plan to abandon the sources was developed and approved by AORC. Abandonment operations began on 7/20/2012.

Event Date: 07/17/2012

Date Reported to Agreement State: 07/17/2012

Discovery Date: 07/17/2012

Date Reported to NRC: 08/02/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: AL-0971

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 1

Zip Code: 77032

Site of Event:

Site Name: MOBILE COUNTY

State: ALABAMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 19 Ci (703 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 0099NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 46184B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
AL120054	08/16/2012		AGREEMENT STATE EVENT REPORT
LTR121023	11/07/2012		AGREEMENT STATE LETTER
AL120054A	11/12/2012		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #N-922) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #27761B). The well is located in Polk County, Texas. The sources were abandoned on 5/8/2012. The Am-Be source is located at a measured depth of 14,906 feet and the Cs-137 source is located at a measured depth of 14,922 feet. A 50-foot red-dyed cement plug, a 20-foot liner backed with 120-feet of red-dyed cement, a whipstock, and bridge plug were placed above the tool string to prevent intrusion.

Event Date: 05/08/2012

Date Reported to Agreement State: 05/09/2012

Discovery Date: 05/08/2012

Date Reported to NRC: 05/30/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: POLK COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-922

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 27761B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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TX120019	06/11/2012		AGREEMENT STATE EVENT REPORT
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- TX-I-8953	06/11/2012		Same as TX120019
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Narrative:

Schlumberger Technology reported the abandonment of several well logging sources down hole in a well in Reeves County, Texas, after retrieval attempts failed. Included in the abandonment were a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5299), and two 592 GBq (16 Ci) Am-Be sources (Gammatron model NSR-F, serial #G5065 and A1511). Schlumberger abandoned the sources in accordance with Texas Railroad Commission and Agency Regulations. A 208-foot red-dyed cement plug was set with the top at 11,960 feet. A production liner was run above the abandonment and included a collar with a no-drill plate at 11,953 feet, which will act as a mechanical deflection device. A plaque has been ordered to mount at the wellhead.

Event Date: 04/12/2012

Date Reported to Agreement State: 04/12/2012

Discovery Date: 04/12/2012

Date Reported to NRC: 05/09/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: REEVES COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5299

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5065

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	NSR-F	IAEA Category:	3
Serial Number:	A1511		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120018	05/22/2012		AGREEMENT STATE EVENT REPORT

Narrative:

ThruBit reported the abandonment of several well logging sources down hole in a well in Harrison County, Texas, after retrieval attempts failed. Included in the abandonment were a 59.57 GBq (1.61 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3233), a 0.699 GBq (18.9 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-3744), and two 3,700 Bq (100 nCi) Cs-137 sources (Saint Gobain model 6G1-CS137-XM and 6G2-CS137-XM, serial #H5-591 and H5-577). The sources are located between a depth of 11,362 and 11,351 feet. ThruBit abandoned the sources in accordance with Texas Railroad Commission and Agency regulations. A 500-foot red-dyed cement plug was set with drill pipe used to prevent inadvertent intrusion. The well will be sidetracked at approximately 2,155 feet. A plaque has been ordered to mount at the wellhead.

Event Date: 05/05/2012

Date Reported to Agreement State: 05/05/2012

Discovery Date: 05/05/2012

Date Reported to NRC: 05/09/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06030

Name: THRUBIT

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: HARRISON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.61 Ci (59.57 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3233

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0189 Ci (18.9 mCi or 699.3 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-3744

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	6G1-CS137-XM	IAEA Category:	<5
Serial Number:	H5-591		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	6G2-CS137-XM	IAEA Category:	<5
Serial Number:	H5-577		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120017	05/22/2012		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported that a well logging tool that contained three radioactive sources became stuck downhole on 5/1/2012. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #5027), and two 592 GBq (16 Ci) Am-Be sources (Gammatron model NSR-F, serial #2667 and 5163). The well is located in Ventura County, California, and operated by Venoco Incorporated. The well casing depth is 11,936 feet and the total depth is 15,353 feet. The Cs-137 source is located at a measured depth of 14,072 feet, one Am-Be source (serial #2667) is located at a measured depth of 14,060 feet, and the other Am-Be source (serial #5163) is located at a measured depth of 15,015 feet. The tool became stuck due to differential sticking conditions while running in-hole. Fishing attempts were unsuccessful and the fishing grapple also became stuck 60 feet above the tool. Schlumberger requested authorization to abandon the sources and that request was approved on 5/9/2012. On 5/10/2012, cement was pumped 200 feet over the logging tool and excess pipe was pulled out of the hole. A shipstock was installed at a measured depth of 11,808 feet and the well was side tracked. The abandonment plaque was ordered and will be attached to the wellhead.

Event Date: 05/01/2012

Date Reported to Agreement State: 05/08/2012

Discovery Date: 05/01/2012

Date Reported to NRC: 05/08/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: OILDALE

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: VENTURA COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: 2667

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	NSR-F	IAEA Category:	3
Serial Number:	5163		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.7 Ci (62.9 GBq)
Model Number:	GSR-J	IAEA Category:	4
Serial Number:	5027		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1717	05/21/2012		AGREEMENT STATE EVENT REPORT
- CA-050812	05/21/2012		Same as CA-XCA1717
LTR120607	06/27/2012		AGREEMENT STATE LETTER
LTR120710	07/24/2012		AGREEMENT STATE LETTER

Narrative:

Weatherford International reported on 4/21/2012 of the decision to abandon a stuck well logging tool downhole in Moore County, Texas. The tool contained a 185 GBq (5 Ci) Am-Be source (Gamma Industries model AN-HP, serial #N-1095) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #P57072B). Weatherford International spent eight days fishing for the tool without success. The tool was abandoned at a depth below 3,400 feet. Weatherford used 200 feet of red-dyed cement and a deflection device to prevent intrusion. A plaque was ordered to be placed at the wellhead. The sources were abandoned in accordance with Texas Railroad Commission and Agency regulations.

Event Date: 04/21/2012

Date Reported to Agreement State: 04/21/2012

Discovery Date: 04/21/2012

Date Reported to NRC: 04/26/2012

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: MOORE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMA INDUSTRIES

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-1095

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P57072B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX120015	05/10/2012		AGREEMENT STATE EVENT REPORT
- TX-I-8949	05/10/2012		Same as TX120015

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2633) and a 55.5 GBq (1.5 Ci) H-3 source (Schlumberger model PNG, serial #8259-42687). The well is located in federal waters offshore Louisiana at Ship Shoal Block 218 and was operated by ANKOR Energy. The well logging tool became stuck on 3/10/2012 and was abandoned on 3/16/2012. The Cs-137 source is located at a measured depth of 4,516 feet and the H-3 source is located at a measured depth of 4,509 feet. The measured depth of the well is 5,702 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 03/10/2012

Date Reported to Agreement State:

Discovery Date: 03/10/2012

Date Reported to NRC: 03/13/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SHIP SHOAL BLOCK 218

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2633

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: SCHLUMBERGER

Activity: 1.5 Ci (55.5 GBq)

Model Number: PNG

IAEA Category: NA

Serial Number: 8259-42687

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12117A377	04/30/2012		LICENSEE REPORT
ML12129A415	05/10/2012		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AN-HP, serial #1145) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP27798B). The well is located in federal waters offshore Louisiana at Ship Shoal Block 189 and was operated by Apache Corporation. The sources became stuck on 1/25/2012 and were abandoned on 1/31/2012. The Am-Be source is located at a measured depth of 19,013 feet and the Cs-137 source is located at a measured depth of 19,022 feet. The top of the cement plug is at a measured depth of 17,215 feet. The measured depth of the well is 19,132 feet.

Event Date: 01/25/2012

Date Reported to Agreement State:

Discovery Date: 01/25/2012

Date Reported to NRC: 02/24/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SHIP SHOAL BLOCK 189

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: 1145

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP27798B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12068A440	04/16/2012		LICENSEE REPORT
ML12101A364	04/16/2012		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS54153B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP34656B). The well is located in federal waters offshore Louisiana at Main Pass Block 41 and was operated by Chevron Corporation. The sources became stuck on 12/31/2011 and were abandoned on 1/4/2012. The Am-Be source is located at a measured depth of 11,876 feet and the Cs-137 source is located at a measured depth of 11,884 feet. The top of the cement plug is at a measured depth of 9,367 feet. The measured depth of the well is 11,972 feet.

Event Date: 12/31/2011

Date Reported to Agreement State:

Discovery Date: 12/31/2011

Date Reported to NRC: 01/26/2012

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MAIN PASS BLOCK 41

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS54153B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP34656B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12039A234	02/14/2012		LICENSEE REPORT
ML12101A364	04/16/2012		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of irretrievable well logging sources. The well is located in federal waters offshore Louisiana at Matagorda Isle Block 669 and was operated by Arena Offshore. Abandonment occurred on 11/25/2011. INL has requested additional information for this event.

Event Date: 11/25/2011

Date Reported to Agreement State:

Discovery Date: 11/25/2011

Date Reported to NRC: 12/28/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MATAGORDA ISLE BLOCK 669

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NR

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: NR

Manufacturer: NR

Activity: NR

Model Number: NR

IAEA Category: NR

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12004A151	01/19/2012		LICENSEE REPORT
ML12017A217	01/19/2012		REGION REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA model CDC.CY6, serial #5186-GW) and a 0.4 GBq (10.8 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-2902). The well logging tool became stuck downhole on 3/15/2011. The well is located in Conway County, Morrilton, Arkansas, and was operated by Chesapeake Energy Corporation. Fishing attempts failed to recover the sources and Pathfinder determined to abandon the sources on 3/20/2011. A 600-foot cement plug was placed above the logging tool. Abandonment efforts were completed on 3/29/2011 and a warning plaque has been affixed at the well head. The Cs-137 source is located at a measured depth of 9,368 feet (6,737 feet vertical depth) and the Cf-252 source is located at a measured depth of 9,363 feet (6,737 feet vertical depth). The total measured depth of the well is 9,784 feet (6,808 feet vertical depth).

Event Date: 03/15/2011

Date Reported to Agreement State: 03/18/2011

Discovery Date: 03/15/2011

Date Reported to NRC: 12/22/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: AR-336

Name: PATHFINDER ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: CONWAY COUNTY

State: ARKANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5186-GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-2902

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:**Reference Number:** **Entry Date:** **Retraction Date:** **Type of Report:**

AR110001

01/05/2012

AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #71046B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #73894B). The well is located in federal waters offshore Louisiana at South Timbalier Block 315 and was operated by W&T Offshore, Incorporated. The sources became stuck on 11/10/2011 and were abandoned on 11/15/2011. The Am-Be source is located at a measured depth of 12,118 feet and the Cs-137 source is located at a measured depth of 12,126 feet. The top of the cement plug is at a measured depth of 11,800 feet. The measured depth of the well is 12,200 feet.

Event Date: 11/10/2011

Date Reported to Agreement State:

Discovery Date: 11/10/2011

Date Reported to NRC: 11/13/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 315

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 71046B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 73894B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML12004A092	01/05/2012		LICENSEE REPORT
ML12017A217	01/19/2012		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS44838B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP34662B). The well is located in federal waters offshore Louisiana at Eugene Island Block 330 and was operated by Apache Corporation. The sources became stuck on 11/23/2011 and were abandoned on 11/26/2011. The Am-Be source is located at a measured depth of 9,587.8 feet and the Cs-137 source is located at a measured depth of 9,595 feet. The top of the fish is at a measured depth of 5,330 feet. A cement plug will be placed above the sources. The measured depth of the well is 10,256 feet.

Event Date: 11/23/2011

Date Reported to Agreement State:

Discovery Date: 11/23/2011

Date Reported to NRC: 11/26/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 330

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS44838B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP34662B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML11347A188	12/14/2011		LICENSEE REPORT
ML12017A217	01/19/2012		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of three irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5412) and two 592 GBq (16 Ci) Am-Be sources (Gammatron model AN-HP, serial #G5205 and G5067). The well is located in the Wildcat field in Carbon County, Wyoming, and was operated by Vector Mineral Corporation. The well logging tool became stuck on 10/25/2011 and was abandoned on 11/4/2011. The Cs-137 source is located at a measured depth of 15,182 feet, one Am-Be source (serial #G5205) is located at a measured depth of 15,170 feet, and the other Am-Be source (serial #G5067) is located at a measured depth of 15,145 feet. The measured depth of the well is 15,460 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 10/25/2011

Date Reported to Agreement State:

Discovery Date: 10/25/2011

Date Reported to NRC: 10/29/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: CARBON COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5412

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: G-5205

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	G-5067		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML11339A128	12/12/2011		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 573.5 GBq (15.5 Ci) Am-Be source (Amersham model S17S15HP, serial #S42214B) and a 92.5 GBq (2.5 Ci) Cs-137 source (Amersham model S3T25, serial #S16082B). The well is located at the Bayou Carlin Field in Saint Mary Parish, Louisiana. The sources became stuck on 3/4/2011 and were abandoned on 3/7/2011. The measured depth of the well is 21,099 feet. The well logging tool and sources are at a depth of 19,973 to 19,837 feet. Attempts were made to retrieve the sources and logging tool. The depth of the top of the cement plug is 19,050 feet. A deflection device was placed on top of the cement plug and a plaque will be placed on the wellhead.

Event Date: 03/04/2011

Date Reported to Agreement State: 03/07/2011

Discovery Date: 03/07/2011

Date Reported to NRC: 11/22/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SAINT MARY PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 15.5 Ci (573.5 GBq)

Model Number: S17S15HP

IAEA Category: 3

Serial Number: S42214B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2.5 Ci (92.5 GBq)

Model Number: S3T25

IAEA Category: 4

Serial Number: S16082B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA110003	12/06/2011		AGREEMENT STATE EVENT REPORT
LTR120418	04/30/2012		AGREEMENT STATE LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (Gammatron model AN-HP, serial #SS41798B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #SS39409B). The well is located in federal waters offshore Louisiana at the Intracoastal Field. The sources became stuck on 11/9/2010 and were abandoned on 11/15/2010. The measured depth of the well is 15,654 feet. The Am-Be source is located at a measured depth of 15,559 feet and the Cs-137 source is located at a measured depth of 15,568 feet. The depth of the top of the cement plug is 13,558 feet. Many attempts were made to retrieve the sources and logging tool. A plaque will be placed on the wellhead.

Event Date:	11/09/2010	Date Reported to Agreement State:	11/15/2010
Discovery Date:	11/15/2010	Date Reported to NRC:	11/22/2011

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	LA-6025-L01	Name:	BAKER HUGHES
NRC Docket Number:	NA	City:	BROUSSARD
NRC Program Code:	NA	State:	LOUISIANA
NRC Region:	4	Zip Code:	70518

Site of Event:

Site Name:	INTRACOASTAL FIELD	State:	OFFSHORE
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE GAUGE	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	5 Ci (185 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	SS41798B		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2.5 Ci (92.5 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	SS39409B		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA110002 12/06/2011 AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (Gammatron model AN-HP, serial #PB35955B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #SS39395B). The well is located in federal waters offshore Louisiana at the South Timbalier Block 21 Field. The sources became stuck on 11/5/2010 and were abandoned on 11/15/2010. The measured depth of the well is 11,403 feet. Many attempts were made to retrieve the sources and logging tool. The top of the cement plug is at a measured depth of 11,064 feet. A plaque will be placed on the wellhead.

Event Date: 11/05/2010

Date Reported to Agreement State: 11/15/2010

Discovery Date: 11/15/2010

Date Reported to NRC: 11/22/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 21

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: PB35955B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: SS39395B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA110001

12/06/2011

AGREEMENT STATE EVENT REPORT

Narrative:

ThruBit reported the abandonment of a 60.68 GBq (1.64 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3218) and a 699.3 MBq (18.9 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-3508) downhole. The sources became stuck on 10/14/2010. Many attempts were made to retrieve the sources and it was decided on 10/20/2011 to abandon the sources. The sources were abandoned at depths of 11,889 and 11,879 feet, respectively. The drill pipe was severed at 7,499 feet with a red-dyed cement plug set from 7,499 to 7,202 feet. A plaque will be placed on the wellhead. The well is located in Plaquemines Parish, Louisiana.

Event Date: 10/14/2010
Discovery Date: 10/20/2010

Date Reported to Agreement State: 10/20/2010
Date Reported to NRC: 11/22/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L06030
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: THRUBIT
City: HOUSTON
State: TEXAS
Zip Code: 77041

Site of Event:

Site Name: PLAQUEMINES PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: CDC.CY3
Serial Number: A3218

Radionuclide: CS-137
Activity: 1.64 Ci (60.68 GBq)
IAEA Category: 4

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: FRONTIER TECHNOLOGY
Model Number: 100SNS
Serial Number: FTC-CF-3508

Radionuclide: CF-252
Activity: 0.0189 Ci (18.9 mCi or 699.3 MBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA100005

12/06/2011

AGREEMENT STATE EVENT REPORT

Narrative:

Weatherford International reported leasing two well logging sources to Vintage Production California, which became stuck downhole on 11/4/2011. The well is located in Kern County, California. One source (QSA Global model AMN.CY4, serial #P4234B) contained 185 GBq (5 Ci) of Am-Be and the other source (QSA Global model CDC.CY11, serial #P34256B) contained 55.5 GBq (1.5 Ci) of Cs-137. Both sources were in a drill string that became stuck at a horizontal depth of 6,000 feet. Fishing operations began on 11/4/2011 and continued for five days, without success. Weatherford International requested permission from the California Health and Human Services Agency to abandon the sources, logging tools, and drill string by cutting the string approximately 727 feet above the top source. They sealed the sources in place with a 300-foot red-dyed cement plug and a whipstock (deflection device).

Event Date: 11/04/2011

Date Reported to Agreement State: 11/09/2011

Discovery Date: 11/04/2011

Date Reported to NRC: 11/14/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-7802-15

Name: WEATHERFORD INTERNATIONAL INC.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93314

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY4

IAEA Category: 3

Serial Number: P4234B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P34256B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1652	11/28/2011		AGREEMENT STATE EVENT REPORT
- CA-110911	11/28/2011		Same as CA-XCA1652
LTR120320	04/03/2012		AGREEMENT STATE LETTER

Narrative:

Sonic Surveys reported the abandonment of a well logging tool (Antares model 1433, serial #001) containing a 740 MBq (20 mCi) Co-60 source (Eckert and Ziegler model HEG-060, serial #CZ3507). The well is located in the Markham Dome Field in Matagorda County, Texas. The source is at a depth of approximately 5,100 feet. The well was a brine solution well (domed salt cavern) that was converted to gas storage. There is no rig on the well and the source is at the bottom of the cavern. There is no danger of rupture and there are no plans to enter the well in the future with tubing or wireline.

Event Date: 11/18/2011
Discovery Date: 11/18/2011

Date Reported to Agreement State: 11/18/2011
Date Reported to NRC: 11/22/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L02622
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SONIC SURVEYS
City: MONT BELVIEU
State: TEXAS
Zip Code: 77580

Site of Event:

Site Name: MATAGORDA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: ECKERT & ZIEGLER
Model Number: HEG-060
Serial Number: CZ3507

Radionuclide: CO-60
Activity: 0.02 Ci (20 mCi or 740 MBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: ANTARES

Model Number: 1433
Serial Number: 1

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN47469	11/28/2011		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8906	11/28/2011		AGREEMENT STATE EVENT REPORT
TX110062	01/04/2012		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #7791B) and a 370 GBq (10 Ci) Am-Be source (Monsanto model NSR-M, serial #A88). The well is located in federal waters offshore Louisiana at South Timbalier block 41 and was operated by Energy Partners. The well logging tool became stuck on 10/12/2011 and was abandoned on 10/15/2011. The Cs-137 source is located at a measured depth of 15,290 feet and the Am-Be source is located at a measured depth of 15,287 feet. The measured depth of the well is 15,380 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 10/12/2011

Date Reported to Agreement State:

Discovery Date: 10/12/2011

Date Reported to NRC: 10/14/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 41

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: 7791B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 10 Ci (370 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: A88

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML11314A193	11/11/2011		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2520) and a 277.5 GBq (7.5 Ci) Am-Be source (QSA Global model NSR-T, serial #Q1035). The well is located in federal waters offshore Louisiana at Garden Banks block 653 and was operated by BHP Billiton Petroleum. The well logging tool became stuck on 7/12/2011 and was abandoned on 7/15/2011. The Cs-137 source is located at a measured depth of 20,886 feet and the Am-Be source is located at a measured depth of 20,979 feet. The measured depth of the well is 21,101 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 07/12/2011

Date Reported to Agreement State:

Discovery Date: 07/12/2011

Date Reported to NRC: 07/12/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARDEN BANKS BLOCK 653

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2520

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 7.5 Ci (277.5 GBq)

Model Number: NSR-T

IAEA Category: 3

Serial Number: Q1035

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML11244A173	09/06/2011		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2513) and a 370 GBq (10 Ci) Am-Be source (Monsanto model NSR-M, serial #A40). The well is located in federal waters offshore Louisiana at Viosca Knoll block 786/830 and was operated by Chevron USA. The well logging tool became stuck on 7/27/2011 and was abandoned on 8/3/2011. The Cs-137 source is located at a measured depth of 23,022 feet and the Am-Be source is located at a measured depth of 23,019 feet. The measured depth of the well is 24,000 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 07/27/2011

Date Reported to Agreement State:

Discovery Date: 07/27/2011

Date Reported to NRC: 07/29/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: VIOSCA KNOLL BLK 786/830

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2513

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 10 Ci (370 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: A40

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML11234A365	08/29/2011		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger reported the abandonment of a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #A2348) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5100) downhole on 6/18/2011. The well is located in San Jacinto County, Texas. The sources were abandoned at depths of 8,241 and 8,254 feet, respectively. A 500-foot red-dyed cement plug was installed from 6,300 to 5,800 feet. A plaque for placement at the wellhead has been ordered. The well will be side tracked and produced.

Event Date: 06/18/2011

Date Reported to Agreement State: 06/20/2011

Discovery Date: 06/18/2011

Date Reported to NRC: 06/28/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SAN JACINTO COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2348

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5100

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: SCHLUMBERGER

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX110033	07/13/2011		AGREEMENT STATE EVENT REPORT
TX110033A	08/02/2011		AGREEMENT STATE EVENT REPORT

Narrative:

ThruBit reported the abandonment of a 59.2 GBq (1.6 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3140), a 699.3 MBq (18.9 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-3745), and two 3,700 Bq (100 nCi) Cs-137 sources (Eckert & Ziegler model 400-5356-00-00 and 400-5350-00-00) downhole. The well is located in Freestone County, Texas. The sources are located at a depth of approximately 7,450 feet. ThruBit abandoned the sources in accordance with Texas Railroad Commission. The owner of the well decided to plug the well back to the surface.

Event Date: 06/02/2011
Discovery Date: 06/02/2011

Date Reported to Agreement State: 06/02/2011
Date Reported to NRC: 06/02/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L06030
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: THRUBIT
City: HOUSTON
State: TEXAS
Zip Code: 77041

Site of Event:

Site Name: FREESTONE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: CDC.CY3
Serial Number: A3140

Radionuclide: CS-137
Activity: 1.6 Ci (59.2 GBq)
IAEA Category: 4

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: FRONTIER TECHNOLOGY
Model Number: 100SNS
Serial Number: FTC-CF-3745

Radionuclide: CF-252
Activity: 0.0189 Ci (18.9 mCi or 699.3 MBq)
IAEA Category: 4

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	400-5350-00-00	IAEA Category:	<5
Serial Number:	NA		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	400-5356-00-00	IAEA Category:	<5
Serial Number:	NA		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX110030	06/16/2011		AGREEMENT STATE EVENT REPORT
TX-I-8859	06/16/2011		AGREEMENT STATE EVENT REPORT
TX110030A	07/19/2011		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included one 666 MBq (18 mCi) Cf-252 source (Frontier Technology model 100S, serial #FTC-CF-3262), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #39360B), and two 3.7 kBq (0.1 µCi) Cs-137 sources (Saint Gobain model .75SG-CS137-XR, serial #101171 and 99677). The well is located in the Tarn Field, North Slope Borough, Alaska, and was operated by Conoco Phillips. The well logging tool became stuck on 4/20/2011 and abandonment efforts were completed on 4/29/2011. The Cf-252 source is located at a measured depth of 7,390 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 7,377 feet. The measured depth of the top of the cement abandonment plug is 6,500 feet. The total measured depth of the well is 7,473 feet.

Event Date: 04/20/2011

Date Reported to Agreement State:

Discovery Date: 04/20/2011

Date Reported to NRC: 04/28/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.018 Ci (18 mCi or 666 MBq)

Model Number: 100S

IAEA Category: 4

Serial Number: FTC-CF-3262

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 39360B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	.75SG .75-CS137-XR	IAEA Category:	<5
Serial Number:	101171		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	.75SG .75-CS137-XR	IAEA Category:	<5
Serial Number:	99677		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML111510933	06/06/2011		LICENSEE REPORT
ML111740451	06/24/2011		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS44829B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP34652B). The well is located in federal waters offshore Louisiana at South Timbalier Block 161 and was operated by Arena Offshore LLC. The sources became stuck on 3/30/2011 and were abandoned on 4/7/2011. The Am-Be source is located at a measured depth of 8,548 feet and the Cs-137 source is located at a measured depth of 8,556 feet. The top of the cement plug is at a measured depth of 7,995 feet. The measured depth of the well is 12,379 feet.

Event Date: 03/30/2011

Date Reported to Agreement State:

Discovery Date: 03/30/2011

Date Reported to NRC: 04/20/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 161

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS44829B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP34652B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML111290769	05/16/2011		LICENSEE REPORT
ML111740451	06/24/2011		NRC LETTER

Narrative:

PSI Wireline reported the abandonment of a 185 GBq (5 Ci) Am-Be source (Gulf Nuclear model 71-1A, serial #237) and a 74 GBq (2 Ci) Cs-137 source (Gulf Nuclear model CSV, serial #J-43) downhole on 3/4/2011. The well is located in Edwards County, Texas. A 478-foot red-dyed cement plug was installed, along with another 275 feet of cement. A drill bit was placed above the second cement plug to act as a deflection device. A plaque was ordered to mount at the well head as a warning that radioactive sources were abandoned in the well.

Event Date: 03/04/2011

Date Reported to Agreement State: 03/22/2011

Discovery Date: 03/04/2011

Date Reported to NRC: 03/28/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05911

Name: PSI WIRELINE INC.

NRC Docket Number: NA

City: SAN ANGELO

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: EDWARDS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 5 Ci (185 GBq)

Model Number: 71-1A

IAEA Category: 3

Serial Number: 237

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: J-43

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX110012	04/13/2011		AGREEMENT STATE EVENT REPORT
TX-I-8829	04/13/2011		AGREEMENT STATE EVENT REPORT

Narrative:

ProTechnics (Division of Core Laboratories) reported that a well logging tool containing a 7.4 MBq (200 µCi) Am-241 source (Gammatron model AN-HP, serial #SST-036) and a 37 MBq (1 mCi) Ba-133 source (Isotope Products model HEG-133, serial #A7-224) became stuck down a well on 10/10/2010. The well is located at the Chevron McKittrick Field in Kern County, California. ProTechnics made several attempts to retrieve the tool in January and February 2011, but were unsuccessful. The sources are still intact. The decision was made on 2/3/2011 to abandon the tool down in the perforated section of the well and seal it according to regulations. The California Department of Health gave approval to implement abandonment procedures on 2/3/2011. ProTechnics abandoned the sources on 3/4/2011.

Event Date:	10/10/2010	Date Reported to Agreement State:	02/03/2011
Discovery Date:	10/10/2010	Date Reported to NRC:	02/07/2011

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CA-6386-15	Name:	PROTECHNICS
NRC Docket Number:	NA	City:	BAKERSFIELD
NRC Program Code:	NA	State:	CALIFORNIA
NRC Region:	4	Zip Code:	93308

Site of Event:

Site Name:	KERN COUNTY	State:	CALIFORNIA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-241
Manufacturer:	GAMMATRON	Activity:	0.0002 Ci (200 µCi or 7.4 MBq)
Model Number:	AN-HP	IAEA Category:	5
Serial Number:	SST-036		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	BA-133
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.001 Ci (1 mCi or 37 MBq)
Model Number:	HEG-133	IAEA Category:	NA
Serial Number:	A7-224		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1573	02/23/2011		AGREEMENT STATE EVENT REPORT
- CA-020311	02/23/2011		Same as CA-XCA1573
LTR110427	05/09/2011		AGREEMENT STATE LETTER
CA-XCA1573A	05/10/2011		AGREEMENT STATE EVENT REPORT
- CA-020311A	05/10/2011		Same as CA-XCA1573A
LTR110502	05/10/2011		AGREEMENT STATE LETTER
LTR110506	05/17/2011		AGREEMENT STATE LETTER

Narrative:

Century Geophysical Corporation (CGC) reported the theft and recovery of a well logging tool that contained a 2.44 GBq (66 mCi) Cs-137 source (Gulf Nuclear model CS-2, serial #VL-1-230). The source was approximately 30 years old and contained an original activity of 4.63 GBq (125 mCi). The source was stolen from a CGC vehicle on 1/31/2011, which was located in a remote and heavily wooded area. The source was removed from its storage location without its shielding, but the source was collimated. A search for the source was completed, but the source was not located. On 2/1/2011, the source was recovered at a scrap yard in Longview, Texas. The thieves had sold the well logging tool to the scrap yard and were apprehended by police. The source was not damaged and CGC took control of the source. Corrective actions taken by CGC included changing their storage policy during transportation and changing all locks securing the tool to the vehicle.

Event Date: 01/31/2011

Date Reported to Agreement State:

Discovery Date: 02/01/2011

Date Reported to NRC: 02/01/2011

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NRCAS

License Number: 35-04017-04

Name: CENTURY GEOPHYSICAL CORP.

NRC Docket Number: 03011376

City: TULSA

NRC Program Code: 03111

State: OKLAHOMA

NRC Region: 4

Zip Code: 74115

Site of Event:

Site Name: HENDERSON

State: TEXAS

Additional Involved Party:

License Number: NR

Name: NR

NRC Docket Number: NR

City: NR

NRC Program Code: NR

State: NR

NRC Region: NR

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / THEFT, SABOTAGE, OR VANDALISM

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

IMPROVE RADIOACTIVE MATERIAL LABELING AND HANDLING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 0.066 Ci (66 mCi or 2.442 GBq)

Model Number: CS-2

IAEA Category: 4

Serial Number: VL-1-230

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL STOLEN AND RECOVERED

RAD MATERIAL IN LANDFILL/INCINERATOR/SCRAP METAL

TRILATERAL TO MEXICO

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN46580	02/04/2011		EVENT NOTIFICATION
TX-I-8816	02/04/2011		AGREEMENT STATE EVENT REPORT
TX-I-8816A	02/04/2011		AGREEMENT STATE EVENT REPORT
TX-I-8816B	02/04/2011		AGREEMENT STATE EVENT REPORT
TX110009	03/17/2011		AGREEMENT STATE EVENT REPORT
TX-I-8816C	03/17/2011		AGREEMENT STATE EVENT REPORT
TX110009A	04/12/2011		AGREEMENT STATE EVENT REPORT
TX-I-8816D	04/12/2011		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger reported the abandonment of a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5191) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5377) downhole on 1/12/2011. The well is located in Limestone County, Texas. The sources became stuck on 12/12/2010 and are located at a measured depth of 12,213 and 12,226 feet, respectively. Attempts to retrieve the sources were unsuccessful. A 332-foot cement plug was installed, along with a casing liner on top of the plug to act as a deflection device. A plaque was ordered to mount at the well head as a warning that radioactive sources are abandoned in the well.

Event Date: 12/12/2010
Discovery Date: 01/12/2011

Date Reported to Agreement State: 01/12/2011
Date Reported to NRC: 01/13/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L01833
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: LIMESTONE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: GAMMATRON
Model Number: NSR-F
Serial Number: G5191

Radionuclide: AM-BE
Activity: 16 Ci (592 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: QSA GLOBAL, INC.
Model Number: GSR-J
Serial Number: A5377

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: SCHLUMBERGER

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX110003	01/26/2011		AGREEMENT STATE EVENT REPORT
TX-I-8811	01/26/2011		AGREEMENT STATE EVENT REPORT
TX110003A	02/10/2011		AGREEMENT STATE EVENT REPORT
TX-I-8811A	02/10/2011		AGREEMENT STATE EVENT REPORT

Narrative:

ThruBit reported the abandonment of a 60.68 GBq (1.64 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3197) downhole on 1/2/2011. The well is located in McMullen County, Texas. The source is located at a measured depth of 10,700 feet. A 750-foot red-dyed cement plug was placed above the source. In addition, a whipstock was placed above the tool to act as a deflection device. A plaque was placed at the wellhead as required. The source was abandoned in accordance with Railroad Commission's requirements.

Event Date: 01/02/2011

Date Reported to Agreement State: 01/07/2011

Discovery Date: 01/07/2011

Date Reported to NRC: 01/13/2011

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06030

Name: THRUBIT

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: MCMULLEN COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.64 Ci (60.68 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3197

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX110002	01/26/2011		AGREEMENT STATE EVENT REPORT
TX-I-8808	01/26/2011		AGREEMENT STATE EVENT REPORT
TX110002A	02/15/2011		AGREEMENT STATE EVENT REPORT
TX-I-8808A	02/15/2011		AGREEMENT STATE EVENT REPORT
TX110002B	02/23/2011		AGREEMENT STATE EVENT REPORT
TX-I-8808B	02/23/2011		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of five irretrievable well logging sources. The sources included two 148 GBq (4 Ci) Am-Be sources (QSA Global model AMN.CY17, serial #7329NK and 7330NK), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #46817B), a 5 kBq (135 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #E4-169), and a 8.51 kBq (230 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #E6-951). The well is located in the Alpine Field, North Slope Borough, Alaska, and was operated by Conoco Phillips. The well logging tool became stuck on 12/6/2010 and abandonment efforts were completed on 12/11/2010. The Am-Be sources are located at a measured depth of 14,077 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 17,091 feet. The measured depth of the top of the cement abandonment plug is 10,830 feet. The total measured depth of the well is 14,161 feet.

Event Date: 12/06/2010

Date Reported to Agreement State:

Discovery Date: 12/06/2010

Date Reported to NRC: 12/10/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 7329NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 7330NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	46817B		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E4-169		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E6-951		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML110110609	01/24/2011		LICENSEE REPORT
ML110450292	02/16/2011		REGION REPORT
ML110460509	02/16/2011		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (Gammatron model AN-HP, serial #PPN884) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP27812B). The well is located in federal waters offshore Louisiana at South Timbalier Block 131 and was operated by Chevron USA, Incorporated. The sources became stuck on 8/30/2010 and were abandoned on 9/7/2010. The Am-Be source is located at a measured depth of 6,774 feet and the Cs-137 source is located at a measured depth of 6,784 feet. The top of the cement plug is at a measured depth of 3,988 feet. The measured depth of the well is 6,850 feet.

Event Date: 08/30/2010

Date Reported to Agreement State:

Discovery Date: 08/30/2010

Date Reported to NRC: 10/07/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 131

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: PPN884

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP27812B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML103540175	01/04/2011		REGION REPORT
ML103540175	01/04/2011		LICENSEE REPORT
ML103550282	01/07/2011		REGION REPORT

Narrative:

Schlumberger reported that a well logging source (QSA Global model GSR-J, A5337) containing 62.9 GBq (1.7 Ci) of Cs-137 was abandoned downhole on 11/22/2010 in Garza County, Texas. Fishing efforts were performed and the tool string broke, leaving the Cs-137 source in the clay formation. Another source was safely recovered. The source was abandoned in accordance with rules and regulations. A 200-foot red-dyed cement plug was placed above the source and an upside-down drill bit was placed above the cement as a deflection device. A plaque was ordered for placement at the wellhead.

Event Date: 11/22/2010

Date Reported to Agreement State: 11/23/2010

Discovery Date: 11/22/2010

Date Reported to NRC: 12/08/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARZA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5337

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100056	12/22/2010		AGREEMENT STATE EVENT REPORT
TX-I-8799	12/22/2010		AGREEMENT STATE EVENT REPORT

Narrative:

Superior Well Services (SWS) reported the abandonment of two stuck well logging sources in a well located in Carroll County, Ohio. One source (Gulf Nuclear model 71-1, serial #71-1-431B) contained 185 GBq (5 Ci) of Am-Be and the other source (Gulf Nuclear model CSV, serial #CSV-J11) contained 74 GBq (2 Ci) of Cs-137. The tool became lodged in the well and the well sides caved in on top of the tool. All attempts to retrieve the tool failed. The sources are intact in the well logging tool at a depth of approximately 5,200 feet below the surface. SWS initially requested permission to abandon the sources on 11/16/2010. They made additional attempts to retrieve the sources and then declared them permanently stuck on 11/19/2010. Abandonment procedures were authorized by the Ohio Bureau of Radiological Protection and began on 12/10/2010. SWS placed a 250-foot cement cap on top of the abandoned sources and placed the appropriate marker at the wellhead.

Event Date: 11/16/2010

Date Reported to Agreement State: 11/19/2010

Discovery Date: 11/19/2010

Date Reported to NRC: 11/22/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OH-0311990000

Name: SUPERIOR WELL SERVICES

NRC Docket Number: NA

City: WOOSTER

NRC Program Code: NA

State: OHIO

NRC Region: 3

Zip Code: 44691

Site of Event:

Site Name: CARROLL COUNTY

State: OHIO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 5 Ci (185 GBq)

Model Number: 71-1

IAEA Category: 3

Serial Number: 71-1-431B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: CSV-J11

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OH100028	12/07/2010		AGREEMENT STATE EVENT REPORT
OH100028A	01/05/2011		AGREEMENT STATE EVENT REPORT
OH100028B	02/22/2011		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of five irretrievable well logging sources. The sources included two 148 GBq (4 Ci) Am-Be sources (QSA Global model AMN.CY17, serial #8302NK and 8303NK), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #49312B), a 5 kBq (135 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #E6-022), and a 8.51 kBq (230 nCi) Cs-137 source (Eckert & Ziegler model A3888, serial #E8-884). The well is located in Vermillion Block 379 and was operated by ADTI Northstar. The well logging tool became stuck on 10/15/2010 and abandonment efforts were completed on 10/19/2010. The Am-Be sources are located at a measured depth of 6,051 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 6,066 feet. The measured depth of the top of the cement abandonment plug is 3,950 feet. The total measured depth of the well is 6,153 feet.

Event Date: 10/15/2010

Date Reported to Agreement State:

Discovery Date: 10/15/2010

Date Reported to NRC: 10/19/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: VERMILLION BLOCK 379

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8302NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8303NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	49312B		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E6-022		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E8-884		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML103300191	11/29/2010		LICENSEE REPORT
ML103540121	01/04/2011		REGION REPORT
ML103550282	01/07/2011		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported that a well logging tool containing two radioactive sources was abandoned downhole on 10/21/2010 in Kern County, California. The well is operated by Chevron Corporation and is 10,900 feet deep. The tool contained a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5139) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model GSR-J, serial #A5441). The sources were abandoned at depths of 9,607 and 9,643 feet, respectively. Ten fishing attempts were made to recover the sources, but were unsuccessful. A 200-foot red-dyed cement plug will be placed above the sources and a mechanical deflection device will be placed above the cement.

Event Date: 10/21/2010

Date Reported to Agreement State: 10/28/2010

Discovery Date: 10/21/2010

Date Reported to NRC: 11/01/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: OILDALE

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5139

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5441

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1543	11/17/2010		AGREEMENT STATE EVENT REPORT
- CA-102810	11/17/2010		Same as CA-XCA1543
LTR110207	02/15/2011		AGREEMENT STATE LETTER

Narrative:

Weatherford International reported that a 55.5 GBq (1.5 Ci) Cs-137 well logging source (QSA Global model CDC.CY11, serial #P44261B) was irretrievably stuck in a well in Converse County, Wyoming. Upon pulling the logging tool to the surface on 9/30/2010, parts of the logging tool were missing. Fishing attempts were successful in recovering parts of the logging tool, but the Cs-137 source was not recovered. The source is believed to be near the bottom of the 17,197-foot well. On 10/4/2010, the source was immobilized and sealed in place with a cement plug from 16,752 feet to 17,186 feet and a "no-drill plate" at 16,757 feet.

Event Date: 09/30/2010

Date Reported to Agreement State:

Discovery Date: 09/30/2010

Date Reported to NRC: 10/04/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: 03030118

City: BENBROOK

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: CONVERSE COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P44261B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML103050377	11/04/2010		LICENSEE REPORT
ML103540160	01/04/2011		REGION REPORT
ML103550282	01/07/2011		REGION REPORT

Narrative:

Schlumberger reported that a well logging tool containing two radioactive sources was abandoned downhole on 9/4/2010 at a well in Hockley County, Texas. The tool contained a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #A2563) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5467). The sources were abandoned at depths of 10,629 and 10,642 feet, respectively. A 260-foot red-dyed cement plug will be placed above the sources and a drill bit will be placed above the cement as a deflection device. A plaque has been ordered for placement at the well head.

Event Date: 09/04/2010

Date Reported to Agreement State: 09/07/2010

Discovery Date: 09/04/2010

Date Reported to NRC: 09/08/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: HOCKLEY COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2563

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5467

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100047	09/27/2010		AGREEMENT STATE EVENT REPORT
TX-I-8781	09/27/2010		AGREEMENT STATE EVENT REPORT
TX100047A	10/11/2010		AGREEMENT STATE EVENT REPORT
TX-I-8781A	10/11/2010		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS44834B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP24468B). The well is located in federal waters offshore Louisiana at Ewing Banks Block 826 and was operated by Apache Corporation. The sources became stuck on 7/29/2010 and were abandoned on 8/4/2010. The Am-Be source is located at a measured depth of 17,586 feet and the Cs-137 source is located at a measured depth of 17,596 feet. The top of the cement plug is at a measured depth of approximately 14,440 feet. The measured depth of the well is 17,853 feet.

Event Date: 07/29/2010

Date Reported to Agreement State:

Discovery Date: 07/29/2010

Date Reported to NRC: 08/04/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EWINGS BANKS BLOCK 826

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS44834B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP24468B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML102500153	09/08/2010		LICENSEE REPORT
ML102740259	10/06/2010		REGION REPORT
ML102740530	10/06/2010		REGION REPORT

Narrative:

Thrubit Logging Solutions reported the abandonment of three irretrievable well logging sources. Those sources include a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3129) and two 3.7 kBq (100 nCi) Cs-137 energy compensation sources (Eckert & Ziegler, model 400-5350-00-00 and 400-5356-00-00). The well is located near Bald Knob, Arkansas and is operated by Chesapeake Operating. The well logging tool became stuck on 5/21/2010. Six fishing attempts were made and abandonment efforts were completed on 5/24/2010. The sources are abandoned at a depth between 3,350 and 4,700 feet. The plugback depth of red-dyed cement is 2,990 feet, with a whipstock depth of 2,963 feet. The total measured depth of the well is 4,700 feet. A warning plaque was received and affixed to the wellhead on 8/23/2010.

Event Date: 05/21/2010

Date Reported to Agreement State: 05/23/2010

Discovery Date: 05/21/2010

Date Reported to NRC: 08/09/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: ASAS

License Number: TX-REC-378

Name: THRUBIT LOGGING SOLUTIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: BALD KNOB

State: ARKANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3129

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: ECKERT & ZIEGLER

Activity: 0.0000001 Ci (100 nCi or 3.7 kBq)

Model Number: 400-5350-00-00

IAEA Category: <5

Serial Number: NA

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ECKERT & ZIEGLER	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	400-5356-00-00	IAEA Category:	<5
Serial Number:	NA		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
AR100002	08/24/2010		AGREEMENT STATE EVENT REPORT
AR100002A	10/19/2010		AGREEMENT STATE EVENT REPORT

Narrative:

On 11/8/2009, Superior Well Services (SWS) reported that a 74 GBq (2 Ci) Cs-137 well logging source (QSA Global, MODEL CDC.CY4, serial #41142B) was irretrievably stuck in a well located in Lumberport, West Virginia. The source became stuck on 11/6/2009. After several attempts to retrieve the source, the well logging tool and the Am-Be source were recovered. However, the Cs-137 source was not recovered and SWS decided to abandon the source. On 11/9/2009, the source was immobilized with a 254-foot vertical column of cement, topped with an inverted drill bit. The depth of the source is 4,013 feet, the depth to the top of the cement plug is 3,759 feet, and the depth of the well is 4,013 feet.

Event Date: 11/06/2009

Date Reported to Agreement State:

Discovery Date: 11/06/2009

Date Reported to NRC: 11/08/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 37-30412-01

Name: SUPERIOR WELL SERVICES, LTD.

NRC Docket Number: 03034542

City: INDIANA

NRC Program Code: 03111

State: PENNSYLVANIA

NRC Region: 1

Zip Code: 15701

Site of Event:

Site Name: LUMBERPORT

State: WEST VIRGINIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 41142B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML102170109	08/16/2010		INSPECTION REPORT
ML103020313	11/02/2010		LICENSEE REPORT
LTR101028	11/16/2010		NRC LETTER

Narrative:

Thrubit reported that a 65.86 GBq (1.78 Ci) Cs-137 well logging source (QSA Global model CDC.CY3, serial #A3128) was lost downhole on 7/27/2010 near Alva, Oklahoma. The well is operated by Chesapeake. The source is located at a depth of 4,452 feet, according to the gamma ray log. Thrubit monitored the well to ensure that the source was not leaking. Four unsuccessful fishing attempts were made and Thrubit believes that the source is lodged in rubble where it can't be retrieved. They submitted a request to abandon the source. The logging tool was cemented in place and abandoned on 7/30/2010.

Event Date: 07/27/2010

Date Reported to Agreement State: 07/28/2010

Discovery Date: 07/27/2010

Date Reported to NRC: 07/28/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OK-32115-01

Name: THRUBIT

NRC Docket Number: NA

City: ALVA

NRC Program Code: NA

State: OKLAHOMA

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: WOODS COUNTY

State: OKLAHOMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3128

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: TBI

Manufacturer: THRUBIT

Serial Number: PS10D

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN46134	08/02/2010		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR100909	09/14/2010		AGREEMENT STATE LETTER

Narrative:

Halliburton Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-354) and a 55.5 GBq (1.5 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #20789B). The sources are located at a depth of 13,200 feet. There is approximately 920 feet of drill pipe on top of the tool string, along with a liner. Halliburton plans to install a 500-foot red-dyed cement plug on top of the drill pipe.

Event Date: 06/23/2010

Date Reported to Agreement State: 06/24/2010

Discovery Date: 06/23/2010

Date Reported to NRC: 06/24/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN-354

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 20789B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100034	07/13/2010		AGREEMENT STATE EVENT REPORT
TX-I-8756	07/13/2010		AGREEMENT STATE EVENT REPORT
TX100034A	10/26/2010		AGREEMENT STATE EVENT REPORT
TX-I-8756A	10/26/2010		AGREEMENT STATE EVENT REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources, including a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS010) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA model CDC.CY6, serial #3007GW). The well is located in Main Pass Block 20 and was operated by LLOG Exploration Offshore, Incorporated. The well logging tool became stuck on 5/17/2010 and abandonment efforts were completed on 5/23/2010. The Am-Be source is located at a measured depth of 9,437 feet and the Cs-137 source is located at a measured depth of 9,444 feet. The measured depth of the top of the cement abandonment plug is 9,145 feet. The total measured depth of the well is 9,526 feet.

Event Date: 05/17/2010

Date Reported to Agreement State:

Discovery Date: 05/17/2010

Date Reported to NRC: 05/21/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: MAIN PASS BLOCK 20

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS010

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 3007GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML101800188	07/01/2010		LICENSEE REPORT
ML102110409	08/16/2010		OTHER
ML102110517	08/16/2010		REGION REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 296 GBq (8 Ci) Am-Be source (QSA Global model AMN.CY17, serial #2594NN), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #12051B), an 8.51 kBq (230 nCi) Cs-137 source (Isotope Products model A3888, serial #E6-948), and a 5 kBq (135 nCi) Cs-137 source (Isotope Products model A3888, serial #E7-697). The well is located in Prudhoe Bay, Alaska, and is operated by BP Exploration. The well logging tool became stuck on 4/3/2010 and abandonment efforts were completed on 4/8/2010. The Am-Be source is located at a measured depth of 16,552 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 16,567 feet. The measured depth of the top of the 274-foot cement plug is 16,061 feet. Also, 217 feet of drill pipe was left above the sources as a deflection device. The total measured depth of the well is 18,129 feet. A warning plaque will be mounted on the wellhead.

Event Date: 04/03/2010

Date Reported to Agreement State:

Discovery Date: 04/03/2010

Date Reported to NRC: 04/05/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: PRUDHOE BAY

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 8 Ci (296 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 2594NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 12051B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E6-948		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	E7-697		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML101680573	06/22/2010		REGION REPORT
LTR100617	06/25/2010		NRC LETTER
ML101620104	06/30/2010		LICENSEE REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 703 GBq (19 Ci) Am-Be source (QSA Global model AMN.CY19, serial #4140NK), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #49318B), a 3.64 kBq (98.5 nCi) Cs-137 source (Saint Gabon model .75SG 2.25-CS137-XR, serial #96090), and a 4.03 kBq (109 nCi) Cs-137 source (Saint Gabon model .75SG .75-CS137-XR, serial #95847). The well is located in Green Canyon Block 511 and was operated by Marathon Oil Company. The well logging tool became stuck on 5/6/2010 and abandonment efforts were completed on 5/13/2010. The Am-Be source is located at a measured depth of 28,335 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 28,321 feet. The measured depth of the top of the cement abandonment plug is 27,316 feet. The total measured depth of the well is 30,002 feet.

Event Date: 05/06/2010

Date Reported to Agreement State:

Discovery Date: 05/06/2010

Date Reported to NRC: 05/08/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GREEN CANYON BLOCK 511

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 19 Ci (703 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 4140NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 49318B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.000000098 Ci (98.5 nCi or 3.6445 kBq)
			5
Model Number:	.75SG 2.25-CS137-XR	IAEA Category:	<5
Serial Number:	96090		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.000000109 Ci (109 nCi or 4.033 kBq)
Model Number:	.75SG .75-CS137-XR	IAEA Category:	<5
Serial Number:	95847		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML101600340	06/10/2010		LICENSEE REPORT
ML101680573	06/22/2010		REGION REPORT
LTR100617	06/25/2010		NRC LETTER

Narrative:

Weatherford International Limited (WIL) reported that a well logging tool was placed in a truck while the 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #2348GW) was still in the tool on 5/21/2010. The truck was located in the WIL shop. The source had been removed from storage to perform calibrations on the logging tool. After calibrations were performed, the logging tool was powered down, disconnected from the wireline, and loaded into the logging truck. When in the tool, the source is highly collimated. The tool and source were left in the truck for approximately 24 hours, potentially exposing two well logging supervisors, a district manager, and one well logging assistant. While performing post-calibration tasks, a worker noticed high gamma ray background readings on a survey meter. He began searching the shop and noted high radiation readings as he approached the logging truck that contained the tool and source. Radiation levels were approximately 5.5 mR/hour adjacent to the truck. The dosimeters for the two supervisors, the assistant, one spare located in the office, one control, and an employee's dosimeter (which had been left on a desk) were sent to Landauer for analysis. One well logging supervisor and the district manager were not wearing their dosimeters during the incident. The incident was reconstructed and surveys performed to aid in identifying the possibility of excess personnel exposure. Incident investigation uncovered many procedural issues, including failure to document the removal of radioactive material from storage, failure to properly secure storage areas, failure to properly return radioactive material to storage, and failure to establish a radiation area during calibration procedures. Personnel actions were taken for one of the individuals involved for not following procedures. In addition, the supervisor was reprimanded for not wearing a dosimeter while on duty and failure to notify management of an improperly secured storage area. All facility employees were reminded of radiation procedures. Based on event reconstruction and available dosimeter readings, it is believed that none of the four employees received in excess of 0.18 mSv (18 mrem) total effective dose equivalent.

Event Date: 05/21/2010

Date Reported to Agreement State: 05/24/2010

Discovery Date: 05/21/2010

Date Reported to NRC: 05/24/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: ND-33-46901-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: NA

City: WILLISTON

NRC Program Code: NA

State: NORTH DAKOTA

NRC Region: 4

Zip Code: 58801

Site of Event:

Site Name: WILLISTON

State: NORTH DAKOTA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

OTH - OTHER

Event Cause:

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

OTH

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

OTH

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PERSONNEL REPRIMANDED

PERSONNEL RECEIVED ADDITIONAL TRAINING
OTH
PERSONNEL REPRIMANDED
PERSONNEL RECEIVED ADDITIONAL TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY11	IAEA Category:	4
Serial Number:	2348GW		

OTH

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY11	IAEA Category:	4
Serial Number:	2348GW		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

OTH

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

OTH

20.2203(a)(2)(iv) - Doses in excess of the limits for an individual member of the public in 20.1301.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45949	05/27/2010		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR100524	05/27/2010		AGREEMENT STATE EVENT REPORT
ND100003	05/27/2010		AGREEMENT STATE EVENT REPORT
LTR100525	06/02/2010		LICENSEE REPORT
EN45949A	06/16/2010		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR100610	06/16/2010		LICENSEE REPORT
LTR110419	05/04/2011		AGREEMENT STATE LETTER

Narrative:

Halliburton Energy Services reported that a well logging tool containing a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #31787B) became stuck downhole and had to be abandoned on 5/3/2010. The well was located near Purvis, Mississippi. The source was abandoned according to procedure.

Event Date: 05/03/2010

Date Reported to Agreement State: 05/03/2010

Discovery Date: 05/03/2010

Date Reported to NRC: 05/12/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: MS-415-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: LAUREL

NRC Program Code: NA

State: MISSISSIPPI

NRC Region: 4

Zip Code: 39440

Site of Event:

Site Name: PURVIS

State: MISSISSIPPI

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 31787B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
MS100003	05/26/2010		AGREEMENT STATE EVENT REPORT
LTR100805	08/16/2010		AGREEMENT STATE LETTER
LTR100817	08/24/2010		AGREEMENT STATE LETTER

Narrative:

Schlumberger reported that a well logging tool containing two radioactive sources was abandoned downhole on 3/19/2010 in Zapata County, Texas. The tool contained a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-L, serial #G5184) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5427). The sources were abandoned at depths of 5,743 and 5,755 feet. An 880-foot red-dyed cement plug was placed above the sources and an additional 300 feet of cement was placed above that plug. A 5.5 inch pipe was placed above the second cement plug to act as a deflection device. A plaque has been ordered for placement at the wellhead. The well will be sidetracked at 4,500 feet.

Event Date: 03/19/2010

Date Reported to Agreement State: 04/14/2010

Discovery Date: 03/19/2010

Date Reported to NRC: 04/15/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: ZAPATA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: G5184

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5427

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100020	04/28/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8729	04/28/2010		Same as TX100020
TX100020A	05/04/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8729A	05/04/2010		Same as TX100020A
TX100020B	05/04/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8729B	05/04/2010		Same as TX100020B

Narrative:

Baker Hughes reported the abandonment of an irretrievable well logging source (QSA Global model CDC.CY4, serial #SS39422B) containing 92.5 GBq (2.5 Ci) of Cs-137. The well is located in federal waters offshore Louisiana at Mississippi Canyon Block 392 and was operated by Shell GOM, Incorporated. The source became stuck on 2/21/2010 and was abandoned on 2/26/2010. The source is located at a measured depth of 27,471 feet. The top of the cement plug is at a measured depth of 25,492 feet. The measured depth of the well is 27,525 feet.

Event Date: 02/22/2010

Date Reported to Agreement State:

Discovery Date: 02/22/2010

Date Reported to NRC: 03/20/2010

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MISSISSIPPI CANYON 392

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: SS39422B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML100890659	04/07/2010		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger reported that a well logging tool containing two radioactive sources was abandoned downhole on 3/15/2010 in Zapata County, Texas. The tool contained a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-L, serial #G4017) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A2334). The Am-Be source was abandoned at 14,547 feet and the Cs-137 source was abandoned at 14,574 feet. A 100-foot red-dyed cement plug and whipstock will be set at 14,515 feet. A second plug of 510 feet of concrete with a whipstock will be set at 14,400 feet.

Event Date: 03/15/2010

Date Reported to Agreement State: 03/15/2010

Discovery Date: 03/15/2010

Date Reported to NRC: 03/16/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: ZAPATA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: G4017

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2334

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100015	03/31/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8723	03/31/2010		Same as TX100015
TX100015A	05/04/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8723A	05/04/2010		Same as TX100015A

Narrative:

Baker Hughes Oil Field Operations (BHOFO) reported a leaking 3.7 GBq (100 mCi) Cs-137 well logging source (Gulf Nuclear model CS-2, serial #CS2-132), which had been manufactured in the early 1980's. The source was leak tested on 2/5/2010 and revealed a removable contamination level of 222 Bq (0.006 µCi). The leaking source is located in a downhole storage area along with 32 other Cs-137 sources. BHOFO does not intend to reuse any of those sources and is concerned that some may have become contaminated. BHOFO initially contracted a service provider to place all of those sources into three OSRP capsules and place them in a different storage location. However, BHOFO determined that the leaking Cs-137 source was the only leaking source and decided to only encapsulate that source. That source was encapsulated in a new container on 2/18/2010. The container was leak tested with results of less than 37 Bq (0.001 µCi). Arrangements were made to have the source disposed of by the DOE.

Event Date: 02/05/2010

Date Reported to Agreement State: 02/08/2010

Discovery Date: 02/05/2010

Date Reported to NRC: 02/08/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04452

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

Event Cause:

EQP

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

LKS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

LKS

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

MATERIAL DISPOSED OF AS WASTE

LKS

MATERIAL DISPOSED OF AS WASTE

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	1.1 Ci (40.7 GBq)
Model Number:	CS-2	IAEA Category:	4
Serial Number:	CS2-132		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	1.1 Ci (40.7 GBq)
Model Number:	CS-2	IAEA Category:	4
Serial Number:	CS2-132	Leak Test Result:	0.006 µCi (6 nCi or 222 Bq)

Reporting Requirements:

EQP

30.50(b)(2) - Equipment is disabled or fails to function as designed.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LKS

39.35(d)(1) - Well logging source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX100006	02/17/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8708	02/17/2010		Same as TX100006
TX100006A	02/19/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8708A	02/19/2010		Same as TX100006A
TX100006B	02/25/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8708B	02/25/2010		Same as TX100006B
TX100006C	03/04/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8708C	03/04/2010		Same as TX100006C

Narrative:

Weatherford International reported that a well logging tool containing two radioactive sources became stuck downhole on 11/7/2008. The sources included a 185 GBq (5 Ci) Am-Be source (Gammatron model AN-HP, serial #N-555) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #8723GS). Operations were being performed at Gibson Gas Unit #1, Tract 43. On 12/12/2008, Weatherford International prepared an abandonment plan, but due to the limited availability of rig equipment, the abandonment was not completed until 1/17/2009. At that time, it was confirmed that the red-dyed cement plug had been poured, a 17-foot whipstock was placed on top as a deflection device, the permanent identification plaque was secured in place, and all proper notifications had been performed.

Event Date: 11/07/2008

Date Reported to Agreement State: 02/12/2009

Discovery Date: 01/17/2009

Date Reported to NRC: 02/01/2010

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: HARRISON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-555

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: 8723GS

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX090006	02/05/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8612	02/05/2010		Same as TX090006
TX090006A	02/17/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8612A	02/17/2010		Same as TX090006A

Narrative:

Weatherford International reported that a well logging tool containing two radioactive sources became stuck downhole. The sources included a 703 GBq (19 Ci) Am-Be source (Gammatron model AN-HP, serial #N-560) and a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #A20759B). Operations were being performed in Nueces County, Texas. The Am-Be source was abandoned at a depth of 8,593 feet and the Cs-137 source was abandoned at a depth of 8,604 feet. A plug of 66 feet of red-dyed cement and a whipstock device was placed immediately above the sources. An additional 20 feet of red-dyed cement was placed above the whipstock. A cast iron bride and an additional 63 feet of cement were placed above the red-dyed cement. A plaque was ordered and will be placed on the well head.

Event Date: 11/05/2009

Date Reported to Agreement State: 11/05/2009

Discovery Date: 11/05/2009

Date Reported to NRC: 12/01/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: NUECES COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 19 Ci (703 GBq)

Model Number: AN-HP

IAEA Category: 2

Serial Number: N-560

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: A20759B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX090040	12/11/2009		AGREEMENT STATE EVENT REPORT
TX-I-8691	12/11/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 296 GBq (8 Ci) Am-Be source (QSA Global model AMN.CY17, serial #7332NK/8638NK), a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY13, serial #31782B), a 8.51 kBq (230 nCi) Cs-137 source (Isotope Products Laboratory model A3888, serial #A8-461), and a 5 kBq (135 nCi) Cs-137 source (Isotope Products Laboratory model A3888, serial #C3-298). The well is located in the Oooguruk Island Field in North Slope Borough, Alaska, and was operated by Pioneer Natural Resources. The well logging tool became stuck on 9/8/2009 and abandonment efforts were completed on 9/12/2009. The Am-Be source is located at a measured depth of 15,919 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 15,933 feet. The measured depth of the top of the cement abandonment plug is 8,413 feet. The total measured depth of the well is 16,007 feet.

Event Date: 09/08/2009

Date Reported to Agreement State:

Discovery Date: 09/08/2009

Date Reported to NRC: 09/11/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 8 Ci (296 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 7332NK/8638NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 31782B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.00000023 Ci (230 nCi or 8.51 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	A8-461		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.000000135 Ci (135 nCi or 4.995 kBq)
Model Number:	A3888	IAEA Category:	<5
Serial Number:	C3-298		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML093280690	11/30/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Pathfinder Energy Services (PES) reported the abandonment of a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #5141 GW) and a 103.6 MBq (2.8 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-2683) downhole. The well logging tool (Pathfinder model ISDNSC, serial #D47C261K) became stuck during logging operations in Webb County and could not be recovered. The Cs-137 source is at a depth of 12,994 feet and the Cf-252 source is at a depth of 13,000 feet. Abandonment will be in accordance with the Railroad Commission and the Texas Department of State Health Services requirements. A 105-foot red-dyed cement plug was placed above the two sources and 119 feet of drill pipe above the sources to act as a diversion device. A plaque will be placed at the well head.

Event Date: 09/16/2009

Date Reported to Agreement State: 09/18/2009

Discovery Date: 09/16/2009

Date Reported to NRC: 10/16/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05236

Name: PATHFINDER ENERGY SERVICES INC.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: WEBB COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5141 GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0028 Ci (2.8 mCi or 103.6 MBq)

Model Number: 100SNS

IAEA Category: 5

Serial Number: FTC-CF-2683

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: PATHFINDER INC.

Model Number: ISDNSC

Serial Number: D47C261K

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR091016	10/28/2009		AGREEMENT STATE LETTER
TX090030	10/28/2009		AGREEMENT STATE EVENT REPORT
TX-I-8670	10/28/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS41802B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #SS39392B). The well is located in federal waters offshore Louisiana at Eugene Island Block 276 and was operated by Chevron Corporation. The sources became stuck on 9/6/2009 and were abandoned on 9/8/2009. The Am-Be source is located at a measured depth of 9,076 feet and the Cs-137 source is located at a measured depth of 9,085 feet. The top of the cement plug is at a measured depth of 6,730 feet. The measured depth of the well is 9,491 feet.

Event Date: 09/06/2009

Date Reported to Agreement State:

Discovery Date: 09/06/2009

Date Reported to NRC: 10/06/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 276

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS41802B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: SS39392B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML092950221	10/26/2009		LICENSEE REPORT
LTR101202	12/13/2010		NRC LETTER
LTR101220	12/20/2010		NRC LETTER
LTR150514	05/19/2015		NRC LETTER

Narrative:

ThruBit reported the loss and recovery of a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CYN, serial #A3128) and a 0.4 GBq (10.8 mCi) Cf-252 source (Frontier Technology model FTC-100, serial #CF-3390) during shipment. The sources were picked up by a common carrier on 10/14/2009 for delivery to their facility in Oklahoma City, Oklahoma. The sources had not arrived at their destination on 10/15/2009. The RSO contacted the shipper and the shipper contacted all of their facilities to look for the packages. The Cs-137 source was in a container that weighed 320 pounds and was labeled as Yellow II with a TI of 0.2. The Cf-252 source was in a container that weighed 185 pounds and was labeled as a Yellow II and a TI of 0.6. ThruBit was contacted the evening of 10/16/2009 by the shipping company and informed that the two sources were located at their facility in Kansas City, Missouri. The sources were delivered at their destination on 10/17/2009. The RSO confirmed that the sources had arrived at their facility in Oklahoma City, Oklahoma. ThruBit stated that they will only use point-to-point shipping in the future.

Event Date: 10/14/2009

Date Reported to Agreement State: 10/16/2009

Discovery Date: 10/15/2009

Date Reported to NRC: 10/16/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06030

Name: THRUBIT

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: KANSAS CITY

State: MISSOURI

Additional Involved Party:

License Number: NON-LICENSEE

Name: CONWAY FREIGHT

NRC Docket Number: NA

City: OKLAHOMA CITY

NRC Program Code: NA

State: OKLAHOMA

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CYN

IAEA Category: 4

Serial Number: A3128

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: FTC-100

IAEA Category: 4

Serial Number: CF-3390

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NA

Serial Number: NA

Device Number: 2

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45442	10/21/2009		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8679	10/21/2009		AGREEMENT STATE EVENT REPORT
TX-I-8679A	10/21/2009		AGREEMENT STATE EVENT REPORT
TX090034	11/16/2009		AGREEMENT STATE EVENT REPORT
TX-I-8679B	11/16/2009		AGREEMENT STATE EVENT REPORT
TX090034A	01/11/2010		AGREEMENT STATE EVENT REPORT
TX-I-8679C	01/11/2010		AGREEMENT STATE EVENT REPORT

Narrative:

Hotwell US reported the loss of a downhole neutron accelerator (well logging tool manufactured by All-Russian Research Institute of Automation model ING-10-50-120-TBT, serial #33284) that contained a 66.6 GBq (1.8 Ci) H-3 sealed source. Hotwell received two well logging tools from the manufacturer in Austria. The tools were then sold to Competition Wireline (CW). Federal Express picked up the tools and was to deliver them to CW in Billings, Montana, on 7/1/2009. One tool (serial #33264) was received, but the other (serial #33284) was not. On 10/13/2009, CW stated that following a general inventory of equipment, they could not locate the well logging tool. Hotwell alleged that Federal Express never delivered the tool and found that it was tracked to Memphis, Tennessee. Federal Express showed the package as being in transit (tracking #7977 2436 8952). Federal Express conducted further investigation and determined on 10/19/2009 that the tool was located in their Salt Lake City, Utah, warehouse. The tool was sent to CW and received on 10/22/2009.

Event Date: 07/01/2009

Date Reported to Agreement State: 10/15/2009

Discovery Date: 10/13/2009

Date Reported to NRC: 10/15/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06145

Name: HOTWELL US LTD

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: SALT LAKE CITY

State: UTAH

Additional Involved Party:

License Number: NON-LICENSEE

Name: FEDERAL EXPRESS

NRC Docket Number: NA

City: SALT LAKE CITY

NRC Program Code: NA

State: UTAH

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.8 Ci (66.6 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: ING-10-50-120-TBT

Manufacturer: ALL-RUSSIAN RIA

Serial Number: 33284

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45435	10/20/2009		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8677	10/20/2009		AGREEMENT STATE EVENT REPORT
TX090035	11/17/2009		AGREEMENT STATE EVENT REPORT
TX-I-8677A	11/17/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 well logging source (QSA Global model CDC.CY3, serial #A2568) and a 59.2 GBq (1.6 Ci) H-3 source (serial #2067-41721, part of a pulsed neutron generator). The well is located in federal waters offshore Louisiana at Garden Banks Block 292 and was operated by Newfield Exploration Company. The well logging tool became stuck on 8/20/2009 and was abandoned on 8/29/2009. The Cs-137 source is located at a measured depth of 24,921 feet and the H-3 source is located at a measured depth of 24,912 feet. The measured depth of the well is 24,955 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 08/20/2009

Date Reported to Agreement State:

Discovery Date: 08/20/2009

Date Reported to NRC: 08/27/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARDEN BANKS BLOCK 262

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC-CY13

IAEA Category: 4

Serial Number: A2568

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.6 Ci (59.2 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: 2067-41721

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML092740772	10/06/2009		LICENSEE REPORT
ML093280696	11/30/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Baker Hughes reported a radiation overexposure to a member of the public during transportation of a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model X.1301, serial #10208B) on 7/12/2009. The source was shipped via common carrier from Van Buren, Arkansas, to Tyler, Texas. One month after receiving the source in Texas, Baker Hughes discovered on 8/12/2009 that the source had been shipped in a container designed to carry a 185 GBq (5 Ci) Am-Be source. Baker Hughes recreated the event and determined that the dose rate in the cab of the transport truck was 0.25 mSv/hour (25 mrem/hour). The trip was estimated to take six hours to complete, resulting in a calculated dose to the driver of 1.5 mSv (150 mrem). Baker Hughes contacted the driver and informed him of the incident. The driver was offered medical assistance, which he refused. A Baker Hughes employee who surveyed the package before it left Arkansas stated that he did not see any unusual dose rates from the package. Corrective actions included providing additional training to personnel involved in the packaging of the source. The Texas Department of State Health Services and the Arkansas Department of Health investigated the possibility of other individuals receiving radiation exposure from the incident.

Event Date: 07/12/2009

Date Reported to Agreement State: 08/12/2009

Discovery Date: 08/12/2009

Date Reported to NRC: 08/13/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: VAN BUREN

State: ARKANSAS

Additional Involved Party:

License Number: AR-0668-03110

Name: BAKER HUGHES

NRC Docket Number: NA

City: VAN BUREN

NRC Program Code: NA

State: ARKANSAS

NRC Region: 4

Zip Code: 72956

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EXP - OVEREXPOSURE

TRS - TRANSPORTATION

Event Cause:

EXP

HUMAN ERROR

TRS

HUMAN ERROR

Event IAEA Aggregate Category:

EXP

IAEA Aggregate Category: 4

TRS

IAEA Aggregate Category: 4

Corrective Actions Information:

EXP

PERSONNEL RECEIVED ADDITIONAL TRAINING

TRS

PERSONNEL RECEIVED ADDITIONAL TRAINING

Exposure Detail:

Person #: 1

Exposure Dose: 0.15 rem (150 mrem or 1.5 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Source of Radiation:

EXP

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Manufacturer: QSA GLOBAL, INC.

Model Number: X.1301

Serial Number: 10208B

Radionuclide: CS-137

Activity: 2.5 Ci (92.5 GBq)

IAEA Category: 4

TRS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Manufacturer: QSA GLOBAL, INC.

Model Number: X.1301

Serial Number: 10208B

Radionuclide: CS-137

Activity: 2.5 Ci (92.5 GBq)

IAEA Category: 4

Device/Associated Equipment:

EXP

Device Number: 1

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NA

Serial Number: NA

TRS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

EXP

20.2203(a)(2)(iv) - Doses in excess of the limits for an individual member of the public in 20.1301.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

TRS

20.1906(d)(2) - Transported package exceeds external radiation limits.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45261	08/18/2009		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8655	08/18/2009		AGREEMENT STATE EVENT REPORT
EN45261A	08/31/2009		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8655A	08/31/2009		AGREEMENT STATE EVENT REPORT
TX090029	10/14/2009		AGREEMENT STATE EVENT REPORT
TX-I-8655B	10/14/2009		AGREEMENT STATE EVENT REPORT
TX090029A	11/09/2009		AGREEMENT STATE EVENT REPORT
TX-I-8655C	11/09/2009		AGREEMENT STATE EVENT REPORT
TX090029B	01/11/2010		AGREEMENT STATE EVENT REPORT
TX-I-8655D	01/11/2010		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5227) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A5096). The well is located in Moffat County, Texas, and was operated by Quicksilver Resources. The sources became stuck on 12/20/2008. Fishing operations were performed for a few days and one source was retrieved; however, the string came apart and the two sources described above remained in the hole. The measured depth of the well is 15,795 feet. Approximately 200-feet of red-dyed cement and a deflector were placed above the sources. A plaque was placed at the wellhead on 1/7/2009.

Event Date:	12/20/2008	Date Reported to Agreement State:	12/26/2008
Discovery Date:	12/20/2008	Date Reported to NRC:	07/23/2009

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CO-039-01	Name:	SCHLUMBERGER TECHNOLOGIES CORP.
NRC Docket Number:	NA	City:	SUGAR LAND
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77478

Site of Event:

Site Name:	MOFFAT COUNTY	State:	COLORADO
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	NSR-F	IAEA Category:	3
Serial Number:	G5227		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A5096		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

CO08-I08-23

08/04/2009

AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of two irretrievable well logging sources, including a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-410) and a 65.86 GBq (1.78 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5222GW). The well is located in Crane County, Texas. The sources were abandoned on 7/2/2009 in accordance with Texas Department of State Health Services procedures. Approximately 300 feet of red-dyed cement was pumped downhole and above the sources. A whipstock was placed on top of the cement as a deflection device.

Event Date: 07/02/2009

Date Reported to Agreement State: 07/14/2009

Discovery Date: 07/02/2009

Date Reported to NRC: 07/21/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: CRANE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN-410

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5222GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX090024	07/30/2009		AGREEMENT STATE EVENT REPORT
TX-I-8643	07/30/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #PB35960B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP27822B). The well is located in federal waters offshore Louisiana at South Timbalier Block 290 and was operated by Apache Corporation. The sources became stuck on 6/17/2009 and were abandoned on 6/24/2009. The Am-Be source is located at a measured depth of 15,504 feet and the Cs-137 source is located at a measured depth of 15,514 feet. The top of the cement plug is at a measured depth of 15,055 feet. The measured depth of the well is 15,595 feet.

Event Date: 06/17/2009

Date Reported to Agreement State:

Discovery Date: 06/17/2009

Date Reported to NRC: 07/24/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER BLOCK 290

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: PB35960B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP27822B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR090715	07/28/2009		LICENSEE REPORT
LTR090727	07/28/2009		NRC LETTER
ML092430486	09/03/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Superior Well Services (SWS) reported the loss and recovery of two well logging sources on 9/20/2008, including a 111 GBq (3 Ci) Am-Be source (Gulf Nuclear model 71-1, serial #4318) and a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #41142B). SWS reported the incident in response to an NRC onsite inspection on 7/23/2009. While returning from a job north of Buckhannon, West Virginia, the neutron shield and density shield separated from the radiation compartment of the logging truck. Upon returning to the shop, the driver noticed a chain hanging freely from the truck's radiation compartment. He looked in the compartment and noticed that both transport shields and the pig holder had separated from the unit. He immediately called his supervisor. The driver mentioned hearing something after hitting a pothole while crossing the bridge on interstate 79, south of Lost Creek (Exit 110). The supervisor drove to the location and picked up the transport shields and pig holder, which had been on the highway for approximately 90 minutes. The supervisor loaded the shield and pig holder into the box of his truck and secured them. A visual inspection revealed no damage to the neutron or density shield and a leak test was negative. Upon the return of the sources to the facility, a mechanic re-welded the pig holder to the floor of the logging truck. The root cause was determined to be the failure of the tack weld on the pig holder. A secondary cause was the failure of the T-handle and hasp lock on the compartment door. Corrective actions included completely welding the pig holder to the truck floor, placing a heavy hasp lock on the exterior of the radiation compartment door, and placing a chain through both transport shields. SWS also modified their annual radiation training and circulated lessons-learned information.

Event Date: 09/20/2008

Date Reported to Agreement State:

Discovery Date: 09/20/2008

Date Reported to NRC: 07/23/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 37-30412-01

Name: SUPERIOR WELL SERVICES, LTD.

NRC Docket Number: 03034542

City: INDIANA

NRC Program Code: 03111

State: PENNSYLVANIA

NRC Region: 1

Zip Code: 15701

Site of Event:

Site Name: BUCKHANNON

State: WEST VIRGINIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EQP

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

LAS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 3

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

EQP

REPAIRS MADE WITH ENGINEERING CHANGE TO SYSTEM

PERSONNEL RECEIVED ADDITIONAL TRAINING

PROCEDURE MODIFIED

LAS

REPAIRS MADE WITH ENGINEERING CHANGE TO SYSTEM
PERSONNEL RECEIVED ADDITIONAL TRAINING
PROCEDURE MODIFIED

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GULF NUCLEAR	Activity:	3 Ci (111 GBq)
Model Number:	71-1	IAEA Category:	3
Serial Number:	4318		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	41142B		

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GULF NUCLEAR	Activity:	3 Ci (111 GBq)
Model Number:	71-1	IAEA Category:	3
Serial Number:	4318		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	QSA GLOBAL, INC.	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	41142B		

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	CONTAINER, PIG, LEAD	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

LAS

Device Number: 1

Device Name:	CONTAINER, PIG, LEAD	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

EQP

30.50(b)(2) - Equipment is disabled or fails to function as designed.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN45225	07/27/2009		EVENT NOTIFICATION
LTR100127	02/02/2010		NRC LETTER
ML102170062	08/16/2010		NRC LETTER
ML102170109	08/16/2010		INSPECTION REPORT
ML102170130	08/16/2010		OTHER
ML102320540	08/24/2010		OTHER
ML102670571	10/06/2010		ENFORCEMENT CONFERENCE

ML102730800	10/12/2010	NRC LETTER
ML102730809	10/12/2010	ENFORCEMENT CONFERENCE
ML102950007	10/25/2010	NRC LETTER
ML102950007	10/25/2010	NOTICE OF VIOLATION
ML102950338	10/25/2010	NRC NEWS ANNOUNCEMENT
ML102880728	11/02/2010	NOTIFICATION OF SIGNIFICANT ENFORCEMENT ACTION
ML103350145	12/07/2010	LICENSEE REPORT
ML110410346	02/15/2011	CONFIRMATORY ACTION LETTER
ML110410616	02/15/2011	NRC NEWS ANNOUNCEMENT
ML110670348	03/16/2011	LICENSEE REPORT
ML111380051	06/01/2011	LICENSEE REPORT
ML110380190	11/22/2011	NOTIFICATION OF SIGNIFICANT ENFORCEMENT ACTION
ML111060361	11/22/2011	NRC LETTER
ML113120422	11/22/2011	NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (Gammatron model NSR-U, serial #U023) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3101). The well is located in the Prudhoe Bay Eastern Operating Area (EOA) field in North Slope Borough, Alaska, and is operated by BP Exploration Alaska. The sources became stuck on 6/23/2009 and were abandoned on 6/30/2009. The Am-Be source is located at a measured depth of 15,670 feet and the Cs-137 source is located at a measured depth of 15,672 feet. The measured depth of the well is 15,918 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 06/23/2009

Date Reported to Agreement State:

Discovery Date: 06/23/2009

Date Reported to NRC: 06/26/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: U023

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3101

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML091910063	07/13/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources, including a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS030) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA model CDC.CY6, serial #3014GW). The well is located in South March Island Block 261 and was operated by Newfield Exploration Company. The well logging tool became stuck on 5/26/2009 and abandonment efforts were completed on 6/2/2009. The Am-Be source is located at a measured depth of 8,493 feet and the Cs-137 source is located at a measured depth of 8,499 feet. The measured depth of the top of the cement abandonment plug is 7,784 feet. The total measured depth of the well is 8,585 feet.

Event Date: 05/26/2009

Date Reported to Agreement State:

Discovery Date: 05/26/2009

Date Reported to NRC: 05/28/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: SOUTH MARCH ISLAND 261

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS030

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 3014GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML091740718	06/25/2009		LICENSEE REPORT
ML091880960	07/09/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported that two well logging sources were stuck downhole on 4/10/2009. The source included a 588.3 GBq (15.9 Ci) Am-Be source (Gammatron model NSR-F, serial #A2655) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A1979). All attempts to retrieve the sources, which were located at 9,800 feet, were unsuccessful. The well is located in rural Routt County, Colorado. The sources were cemented in place and a deflection device was installed. A warning plaque was placed at the wellhead.

Event Date: 04/10/2009

Date Reported to Agreement State: 04/10/2009

Discovery Date: 04/10/2009

Date Reported to NRC: 06/03/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CO-039-01

Name: SCHLUMBERGER TECHNOLOGIES CORP.

NRC Docket Number: NA

City: GREENWOOD VILLAGE

NRC Program Code: NA

State: COLORADO

NRC Region: 4

Zip Code: 80111

Site of Event:

Site Name: ROUTT COUNTY

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15.9 Ci (588.3 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2655

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A1979

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

CO09-I09-08

06/10/2009

AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of a 185 GBq (5 Ci) Am-Be well logging source (Gulf Nuclear model 71-1A, serial #147) down hole at a salt dome on 5/21/2009. The logging tool (McCullough Tool Company model 2406XA, serial #MC2) separated from the drive cable and fell into the well, which opens into a large unlined cavity. Source retrieval is not considered possible. The source was abandoned according to procedure and a plaque was placed at the well head.

Event Date: 05/21/2009

Date Reported to Agreement State: 05/21/2009

Discovery Date: 05/21/2009

Date Reported to NRC: 05/22/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 5 Ci (185 GBq)

Model Number: 71-1A

IAEA Category: 3

Serial Number: 147

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: 2406XA

Manufacturer: MCCULLOUGH TOOL CO.

Serial Number: MC2

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX090015	06/02/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8636	06/02/2009		Same as TX090015
TX090015A	07/09/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8636A	07/09/2009		Same as TX090015A
TX090015B	07/15/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8636B	07/15/2009		Same as TX090015B

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (Gammatron model NSR-U, serial #N377) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technology model CDC.CY3, serial #A2217). The well is located in North Slope Borough, Alaska, and is operated by BP Exploration Alaska. The sources became stuck on 4/29/2009 and were abandoned on 5/4/2009. The Am-Be source is located at a measured depth of 11,915 feet and the Cs-137 source is located at a measured depth of 11,917 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 04/29/2009

Date Reported to Agreement State:

Discovery Date: 04/29/2009

Date Reported to NRC: 05/01/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: N377

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2217

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML091310639	05/18/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Superior Well Services (SWS) reported abandoning a 74 GBq (2 Ci) Cs-137 source (Gulf Nuclear model CSB, serial #CSB-21) downhole. The source became stuck during well drilling operations on 4/21/2009 at a location outside of Cleveland, Ohio. Several attempts to retrieve the source using standard procedures were unsuccessful. SWS declared the source irretrievable and requested authorization to implement abandonment procedures from the Ohio Bureau of Radiation Protection (BRP) on 4/22/2009. Authorization was granted by BRP. The source is stuck at the bottom of the well at a depth of approximately 3,800 feet. SWS will fill the well with 60 feet of cement above the source, insert a whipstock above the cement fill, and then place an additional fill of cement above the whipstock for a total of approximately 1,100 feet. The well head will then be capped with a permanent identification marker.

Event Date:	04/21/2009	Date Reported to Agreement State:	04/22/2009
Discovery Date:	04/21/2009	Date Reported to NRC:	04/23/2009

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	OH-03111860001	Name:	SUPERIOR WELL SERVICES
NRC Docket Number:	NA	City:	WOOSTER
NRC Program Code:	NA	State:	OHIO
NRC Region:	3	Zip Code:	44691

Site of Event:

Site Name:	CLEVELAND	State:	OHIO
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1	Radionuclide:	CS-137
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Activity:	2 Ci (74 GBq)
Manufacturer:	GULF NUCLEAR	IAEA Category:	4
Model Number:	CSB		
Serial Number:	CSB-21		

Device/Associated Equipment:

LAS

Device Number:	1	Model Number:	NR
Device Name:	WELL LOGGING TOOL	Serial Number:	NR
Manufacturer:	GULF NUCLEAR		

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OH090002	04/30/2009		AGREEMENT STATE EVENT REPORT
OH090002A	11/24/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger reported abandoning a well logging tool and two sealed sources down hole on 3/17/2009. The two sources were lost at 13,544 feet and consisted of a 370 GBq (10 Ci) Am-Be source (QSA Global model NSR-U, serial #Q1081) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A3029). Three attempts to retrieve the sources were unsuccessful. A 439-foot red-dyed cement plug was placed above the sources on 5/12/2009, and the casing liner was used as the mechanical deflection device. The well was located off shore (State Track 692), but still under State of Texas authority. A plaque has been ordered and will be placed at the well when received. The sources were abandoned in accordance with procedures.

Event Date: 03/17/2009

Date Reported to Agreement State: 03/17/2009

Discovery Date: 03/17/2009

Date Reported to NRC: 04/21/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: OFFSHORE

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: Q1081

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A3029

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NA

Manufacturer: SCHLUMBERGER

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX090010	04/29/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8628	04/29/2009		Same as TX090010
TX090010A	05/21/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8628A	05/21/2009		Same as TX090010A

Narrative:

Schlumberger Technology Corporation reported that two well logging sources were stuck downhole on 1/3/2008. The source included a 592 GBq (16 Ci) Am-Be source (Gammatron model AN-HP, serial #G5144) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A5351). All attempts to retrieve the source, which were located at 11,000 feet, were unsuccessful. Permission was granted to abandon the sources. The sources were cemented in place with red-dyed cement and a deflection device was installed. A plaque was welded to the wellhead.

Event Date: 01/03/2008
Discovery Date: 01/03/2008

Date Reported to Agreement State: 01/03/2008
Date Reported to NRC: 03/19/2009

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: CO-039-01
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGIES CORP.
City: GREENWOOD VILLAGE
State: COLORADO
Zip Code: 80111

Site of Event:

Site Name: GARFIELD COUNTY

State: COLORADO

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: GAMMATRON
Model Number: AN-HP
Serial Number: G-5144

Radionuclide: AM-BE
Activity: 16 Ci (592 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AMERSHAM
Model Number: CDC.CY3
Serial Number: A5351

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

CO08-I08-01

04/02/2009

AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 703 GBq (19 Ci) Am-Be source (AEA Technology model AMN.CY19, serial #0026NN), a 74 GBq (2 Ci) Cs-137 source (AEA Technology model CDC.CY13, serial #16156B), and two 3.7 kBq (0.1 µCi) Cs-137 sources (Saint Gobain Crystals model .75SG 2.25-Cs137-XR, serial #102729 and 104833). The well is located in East Breaks Block 599 and was operated by Anadarko Petroleum Company. The well logging tool became stuck on 1/30/2009 and abandonment efforts were completed on 2/2/2009. The Am-Be source is located at a measured depth of 9,185 feet and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 9,202 feet. The measured depth of the top of the cement abandonment plug is 8,869 feet. The total measured depth of the well is 10,160 feet.

Event Date: 01/30/2009

Date Reported to Agreement State:

Discovery Date: 01/30/2009

Date Reported to NRC: 02/01/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: EAST BREAKS BLOCK 599

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 19 Ci (703 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 0026NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 16156B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	.75SG 2.25-CS137-XR	IAEA Category:	<5
Serial Number:	102729		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	.75SG 2.25-CS137-XR	IAEA Category:	<5
Serial Number:	104833		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML090690615	03/12/2009		LICENSEE REPORT
ML090690627	03/12/2009		LICENSEE REPORT
ML090890811	04/02/2009		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (AEA Technologies model AMN.CY3, serial #SS39392B) and a 92.5 GBq (2.5 Ci) Cs-137 source (Amersham model CDC.CY4, serial #SS41802B). The well is located in federal waters offshore Louisiana at Main Pass Block 278 and was operated by Chevron Corporation. The sources became stuck on 1/15/2009 and were abandoned on 1/23/2009. The Am-Be source is located at a measured depth of 11,201 feet and the Cs-137 source is located at a measured depth of 11,209 feet. The top of the cement plug is at a measured depth of 9,970 feet. The measured depth of the well is 11,352 feet.

Event Date: 01/15/2009

Date Reported to Agreement State:

Discovery Date: 01/15/2009

Date Reported to NRC: 01/23/2009

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MAIN PASS BLOCK 278

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS39392B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: SS41802B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML090690576	03/12/2009		LICENSEE REPORT
ML090890811	04/02/2009		REGION REPORT
LTR090408	04/13/2009		NRC LETTER

Narrative:

Schlumberger Technology reported that a well logging tool containing a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5128) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5426) was stuck downhole on 11/21/2008. The tool was abandoned on 11/23/2008 in a well located in Section 14, Township Range, Utah County. The well is owned by EOG Resources. The tool is located at a depth of 9,752 feet. The Am-Be source is located at a depth of 9,721 feet and the Cs-137 source is at 9,734 feet. A red-dyed cement plug was placed in the bore hole from 9,178 feet to 8,878 feet. A 6.125 inch drill bit and a four-foot crossover deflector were placed on top of the plug as a deflection device. An additional 970 feet of cement was placed on top of the deflection device. A third cement plug of 1,000 feet was added. Schlumberger plans to reenter the well with at least a 50 foot separation from the abandoned tool.

Event Date: 11/21/2008

Date Reported to Agreement State: 12/04/2008

Discovery Date: 11/21/2008

Date Reported to NRC: 12/30/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: UT2400065

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: VERNAL

NRC Program Code: NA

State: UTAH

NRC Region: 4

Zip Code: 84078

Site of Event:

Site Name: UTAH COUNTY

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5128

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5426

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

UT080005 01/14/2009 AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of three irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Monsanto Research model NSR-F, serial #G2693), a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5225), and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technology model CDC.CY3, serial #A5280). The well is located in Sweetwater County, Wyoming, and is owned by Devon Energy Corporation. The sources became stuck on 12/10/2008 and were abandoned on 12/20/2008. The Am-Be sources are located at depths of 12,153 feet and 12,167 feet, respectively. The Cs-137 source is located at a depth of 12,180 feet. Cement plugs and items for mechanical deflection were placed above the sources. A plaque will be placed at the well head.

Event Date: 12/10/2008

Date Reported to Agreement State:

Discovery Date: 12/10/2008

Date Reported to NRC: 12/16/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SWEETWATER COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G2693

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5225

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A5280		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML090070262	01/09/2009		LICENSEE REPORT
ML090200049	02/02/2009		REGION REPORT

Narrative:

Weatherford International reported the abandonment of two irretrievable well logging sources. The sources included a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY16, serial #42296B) and a 555 GBq (15 Ci) Am-Be source (Amersham model AMN.CY20, serial #31067B). The well is located in federal waters offshore Louisiana at High Island Block 351 A and is owned by El Paso Production. The sources became stuck on 11/25/2008 and were abandoned on 12/1/2008. The Cs-137 source is located at a measured depth of 11,414 feet and the Am-Be source is located at a measured depth of 11,419 feet. The measured depth of the well is 11,604 feet. The depth of the top of the cement plug is 7,663 feet.

Event Date: 11/25/2008

Date Reported to Agreement State:

Discovery Date: 11/25/2008

Date Reported to NRC: 12/30/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: 03030118

City: FORT WORTH

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: HIGH ISLAND BLOCK 351 A

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY16

IAEA Category: 4

Serial Number: 42296B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 15 Ci (555 GBq)

Model Number: AMN.CY20

IAEA Category: 3

Serial Number: 31067B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML090070246	01/09/2009		LICENSEE REPORT
ML090200049	02/02/2009		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5146) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A5367). The well is located in Sublette County, Wyoming, and is owned by EnCana Oil & Gas, Incorporated. The sources became stuck on 11/23/2008 and were abandoned on 12/4/2008. The Am-Be source is located at a depth of 8,193 feet and the Cs-137 source is located at a depth of 8,206 feet. A 216-foot cap of red-dyed cement was placed directly above the sources and a second 847-foot cement plug was placed on top of the first. Also, 1,211 feet of heavy weight drill pipe, collars, the fishing assembly, and the logging tool will serve as a deflection device. A plaque will be placed at the well head.

Event Date: 11/23/2008

Date Reported to Agreement State:

Discovery Date: 11/23/2008

Date Reported to NRC: 12/04/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUBLETTE COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5146

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5367

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML083570419	01/06/2009		LICENSEE REPORT
ML090200049	02/02/2009		REGION REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5135GW) and a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-067). The well is located in federal waters offshore Louisiana at Main Pass Block 279 and is owned by W&T Offshore, Incorporated. The sources became stuck on 10/28/2008 and were abandoned on 11/7/2008. The Cs-137 source is located at a measured depth of 5,793 feet and the Am-Be source is located at a measured depth of 5,785 feet. The measured depth of the well is 11,285 feet. The depth of the top of the cement plug is 4,805 feet.

Event Date: 10/28/2008

Date Reported to Agreement State:

Discovery Date: 10/28/2008

Date Reported to NRC: 11/07/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: MAIN PASS BLOCK 279

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5135GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-067

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML083570436	01/06/2009		LICENSEE REPORT
ML090200049	02/02/2009		REGION REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5184GW) and a 0.4 GBq (10.8 mCi) Cf-252 source (Frontier Technology model 100 SNS, serial #FTC-CF-2905). The well is located in federal waters offshore Louisiana at Eugene Island Block 342 and is owned by Mariner Energy, Incorporated. The sources became stuck on 10/26/2008 and were abandoned on 10/29/2008. The Cs-137 source is located at a depth of 10,286 feet and the Cf-252 source is located at a depth of 10,283 feet. The depth of the well is 10,340 feet. The depth of the top of the cement plug is 9,633 feet.

Event Date: 10/26/2008

Date Reported to Agreement State:

Discovery Date: 10/26/2008

Date Reported to NRC: 10/29/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: EUGENE ISLAND BLOCK 342

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5184GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-2905

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML083530544	01/06/2009		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A5236) and a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5052). The well is located in Freestone County, Texas. The sources were abandoned at depths of 12,509 and 12,522 feet, respectfully. A 200-foot cap of red-dyed cement was placed directly above the sources and a second 200-foot cement plug was placed on top of the first. A third plug of 1,349 feet of cement was placed above the other two. A production casing was used as a mechanical deflection device above the cement plugs. A plaque will be placed at the well head.

Event Date: 10/08/2008

Date Reported to Agreement State: 10/08/2008

Discovery Date: 10/08/2008

Date Reported to NRC: 12/09/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: FREESTONE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5052

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5236

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080044	01/06/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8588	01/06/2009		Same as TX080044
TX080044A	01/08/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8588A	01/08/2009		Same as TX080044A

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable 592 GBq (16 Ci) Am-Be well logging source (Gammatron model NSR-F, serial #G4013). The well is owned by Pioneer Natural Resources and is located in Bee County, Texas, at Monteola Gas Unit #1. The source became stuck at a total depth of 15,525 feet and approximately 500 to 600 feet of logging cable remains in the hole on top of the well logging tool. A 500-foot cement plug with red oxide dye was placed on top of the tool string from approximately 14,500 to 14,000 feet. An upside-down 5.75 inch tri-cone drill bit was placed on top of the cement plug at approximately 14,000 feet and will serve as the mechanical deflection device. A cast iron bridge plug was set above the mechanical deflection device, topped with a 20-foot cement plug.

Event Date: 11/05/2008

Date Reported to Agreement State: 11/05/2008

Discovery Date: 11/05/2008

Date Reported to NRC: 12/09/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: BEE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G4013

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080039	01/06/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8578	01/06/2009		Same as TX080039
TX080039A	01/08/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8578A	01/08/2009		Same as TX080039A

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2366GW) and a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-018). The well is located in federal waters offshore Louisiana at Main Pass Block 279 and is owned by W&T Offshore, Incorporated. The sources became stuck on 12/1/2008 and were abandoned on 12/6/2008. The Cs-137 source is located at a measured depth of 5,012 feet and the Am-Be source is located at a measured depth of 5,004 feet. The measured depth of the well is 11,961 feet. The depth of the top of the cement plug is 4,700 feet.

Event Date: 12/01/2008

Date Reported to Agreement State:

Discovery Date: 12/01/2008

Date Reported to NRC: 12/06/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: MAIN PASS BLOCK 279

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2366GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-018

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML083450743	12/15/2008		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Halliburton Energy Services reported abandoning two well logging sources downhole in Andrews County, Texas. One source (Gulf Nuclear model 712A, serial #DSN-15) contained 684.5 GBq (18.5 Ci) of Am-Be and the other source (Gulf Nuclear model CSV, serial #5060GW) contained 55.5 GBq (1.5 Ci) of Cs-137. The sources will be covered with approximately 200 feet of red-dyed cement and a plaque will be placed on the wellhead in accordance with abandonment procedures.

Event Date: 06/15/2008

Date Reported to Agreement State: 06/26/2008

Discovery Date: 06/25/2008

Date Reported to NRC: 11/07/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: ANDREWS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 18.5 Ci (684.5 GBq)

Model Number: 712A

IAEA Category: 2

Serial Number: DSN-15

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 1.5 Ci (55.5 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: 5060GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: HALLIBURTON

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080019	11/25/2008		AGREEMENT STATE EVENT REPORT
- TX-I-8523	11/25/2008		Same as TX080019
TX080019A	02/02/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8523A	02/02/2010		Same as TX080019A
TX080019B	02/16/2010		AGREEMENT STATE EVENT REPORT
- TX-I-8523B	02/16/2010		Same as TX080019B

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #3947) and a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5156). The well is located at Angelina River Gas Unit 1. The sources became stuck at a depth of 12,180 feet. The typical abandonment procedures will be followed, which includes several hundred feet of dyed cement topped with a mechanical deflection device. A standard abandonment plaque will be mounted on the well head.

Event Date: 09/30/2008
Discovery Date: 09/30/2008

Date Reported to Agreement State: 10/30/2008
Date Reported to NRC: 10/30/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L01833
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: ANGELINA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: GAMMATRON
Model Number: NSR-F
Serial Number: G5156

Radionuclide: AM-BE
Activity: 16 Ci (592 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AEA TECHNOLOGIES
Model Number: CDC.CY3
Serial Number: 3947

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080036	11/18/2008		AGREEMENT STATE EVENT REPORT
- TX-I-8567	11/18/2008		Same as TX080036
TX080036A	01/08/2009		AGREEMENT STATE EVENT REPORT
- TX-I-8567A	01/08/2009		Same as TX080036A

Narrative:

Halliburton Energy Services reported the abandonment of a well logging tool that contained a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-358) and a 74 GBq (2 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #5152GW). The tool was irretrievably stuck at a depth of between 6,160 and 6,085 feet. The well is located in Duchesne County, Utah. Fishing operations were attempted, but failed. A second string with a wire-line grapple and other tools became stuck at a depth of 4,700 feet. Halliburton will place 200 feet of red-dyed cement down the hole and place a diversion device on top of the cement plug. An additional 500 feet of cement will be placed on top of the first plug and another deflection device will be placed on top of that second plug. A permanent identification plaque will be placed at the surface of the well head.

Event Date: 09/21/2008

Date Reported to Agreement State: 10/10/2008

Discovery Date: 09/21/2008

Date Reported to NRC: 10/27/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: UT2400026

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: DUCHESNE COUNTY

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN-358

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5152GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

UT080004

11/10/2008

AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (AEA Technologies model CDC.CY4, serial #SS41787B) and a 92.5 GBq (2.5 Ci) Cs-137 source (Amersham model AMN.CY3, serial #PP27823B). The well is located in federal waters offshore Louisiana at Brazos Block A1 and was operated by PPI/Royal Production. The sources became stuck on 10/2/2008 and were abandoned on 10/5/2008. The Am-Be source is located at a measured depth of 8,050 feet and the Cs-137 source is located at a measured depth of 8,059 feet. The top of the cement plug is at a measured depth of 7,660 feet. The measured depth of the well is 8,140 feet.

Event Date: 10/02/2008

Date Reported to Agreement State:

Discovery Date: 10/02/2008

Date Reported to NRC: 10/31/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: BRAZOS BLOCK A1

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: CDC.CY4

IAEA Category: 3

Serial Number: SS41787B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2.5 Ci (92.5 GBq)

Model Number: AMN.CY3

IAEA Category: 4

Serial Number: PP27823B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML083120489	11/10/2008		LICENSEE REPORT
ML083250156	11/24/2008		NRC LETTER
LTR090206	02/09/2009		NRC LETTER

Narrative:

Halliburton Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 555 GBq (15 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-357) and a 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY6, serial #20788B). The well is located in Columbus Townsite, Colorado County, Texas. The well logging tool (Halliburton serial #10735016) became stuck on 9/29/2008. The Am-Be source is located at a measured depth of 11,587 feet and the Cs-137 source is located at a measured depth of 11,598.5 feet. A 500-foot red-dyed cement plug was placed above the sources. Another 1,000 feet of cement will also be placed above the plug.

Event Date: 09/29/2008

Date Reported to Agreement State: 10/08/2008

Discovery Date: 09/29/2008

Date Reported to NRC: 10/09/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-02113-062

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: COLUMBUS

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 15 Ci (555 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DSN-357

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 20788B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: HALLIBURTON

Model Number: NR

Serial Number: 10735016

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080033	10/21/2008		AGREEMENT STATE EVENT REPORT
- TX-I-8572	10/21/2008		Same as TX080033
TX080033A	11/19/2008		AGREEMENT STATE EVENT REPORT
- TX-I-8572A	11/19/2008		Same as TX080033A

Narrative:

Halliburton Energy Services reported the abandonment of four irretrievable well logging sources. The sources included a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #1614NN), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #31795B), and two 3.7 kBq (0.1 µCi) Cs-137 sources (Saint Gobain Crystals, serial #104598 and 104862). The well is located in Ship Shoal Block 224 and was operated by Energy Resource Technology GOM. The well logging tool became stuck on 8/17/2008 and abandonment efforts were completed on 8/27/2008. The Am-Be source is located at a measured depth of 11,560 feet (10,399 feet vertical depth) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 11,551 feet (10,392 feet vertical depth). The measured depth of the top of the cement abandonment plug is 6,251 feet (6,200 feet vertical depth). The total measured depth of the well is 11,670 feet (10,484 feet vertical depth).

Event Date: 08/17/2008

Date Reported to Agreement State:

Discovery Date: 08/17/2008

Date Reported to NRC: 08/18/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SHIP SHOAL BLOCK 224

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 1614NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 31795B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.0000001 Ci (100 nCi or 3.7 kBq)
Model Number:	NR	IAEA Category:	<5
Serial Number:	104598		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SAINT-GOBAIN	Activity:	0.000001 Ci (1 µCi or 37 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	104862		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082730891	10/07/2008		LICENSEE REPORT
ML082890856	10/20/2008		NRC LETTER

Narrative:

Halliburton Energy Services reported the loss of two densimeters (serial #V32-0571 and W25-599), each containing a 0.37 GBq (10 mCi) Cs-137 source (serial #XA-417 and DB-455, respectively). The devices are located on drilling rig ENSCO 74, which was located in the Gulf of Mexico, off the Louisiana coast. However, the rig has not been located. The rig owner is searching for the rig. The rig legs are still on location. The legs appear to have broken off below the barge as a result of recent hurricane activity. The rig may be afloat or may have sunk to the bottom of the ocean. ENSCO Offshore Company has abandoned the search efforts for the rig. INL has requested additional information for this event.

Event Date: 09/30/2008

Date Reported to Agreement State: 09/30/2008

Discovery Date: 09/30/2008

Date Reported to NRC: 09/30/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OK-00502-03

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: GULF OF MEXICO

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: N

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / WEATHER OR AMBIENT CONDITION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.01 Ci (10 mCi or 370 MBq)

Model Number: NR

IAEA Category: 5

Serial Number: XA-417

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.01 Ci (10 mCi or 370 MBq)

Model Number: NR

IAEA Category: 5

Serial Number: DB-455

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GAUGE PORTABLE

Manufacturer: NR

Model Number: NR

Serial Number: V32-0571

Device Number: 2

Device Name: GAUGE PORTABLE

Manufacturer: NR

Model Number: NR

Serial Number: W25-599

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:**Reference Number: Entry Date: Retraction Date: Type of Report:**

EN44528 10/01/2008

EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

EN44528A 12/08/2008

EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

Narrative:

Baker Hughes reported the abandonment of irretrievable well logging sources. The well is located in federal waters offshore Louisiana at Ewing Banks Block 782 and was operated by Apache Corporation. The sources became stuck on or about 7/2/2008.

Event Date: 07/02/2008

Date Reported to Agreement State:

Discovery Date: 07/02/2008

Date Reported to NRC: 08/05/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EWING BANKS BLOCK 782

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: N

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NR

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: NR

Manufacturer: NR

Activity: NR

Model Number: NR

IAEA Category: NR

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082200411	09/24/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT
LTR081023	10/28/2008		NRC LETTER

Narrative:

Baker Hughes reported the abandonment of irretrievable well logging sources. The well is located in federal waters offshore Louisiana at Ewing Banks Block 782 and was operated by Apache Corporation. The sources became stuck on or about 7/2/2008.

Event Date: 07/02/2008

Date Reported to Agreement State:

Discovery Date: 07/02/2008

Date Reported to NRC: 08/05/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EWING BANKS BLOCK 782

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: N

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NR

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: NR

Manufacturer: NR

Activity: NR

Model Number: NR

IAEA Category: NR

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082200411	09/24/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT
LTR081023	10/28/2008		NRC LETTER

Narrative:

Weatherford International reported that a well logging tool became stuck downhole in Athens Township, Crawford, Pennsylvania. The operator is Atlas Energy Resources. The 55.5 GBq (1.5 Ci) Cs-137 source (QSA Global model CDC.CY11, serial #2864GW) had become hung-up on the bottom of surface casing at approximately 742 feet and consequently had separated from the top of the tool. A gamma ray log of the well showed that the source and tool were at the bottom of the well at 4,688 feet. The source and tool were immobilized and sealed in place with 180 feet of red-dyed cement. A drill deflection device was set at 4,480 feet. A wellhead plaque was set in place notifying anyone who should attempt to drill there of the situation, including all details.

Event Date: 07/29/2008

Date Reported to Agreement State: 07/29/2008

Discovery Date: 07/29/2008

Date Reported to NRC: 09/02/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: PA-42-29288-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: NA

City: ELDERTON

NRC Program Code: NA

State: PENNSYLVANIA

NRC Region: 1

Zip Code: 15736

Site of Event:

Site Name: CRAWFORD COUNTY

State: PENNSYLVANIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: 2864GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
PA080020	09/17/2008		AGREEMENT STATE EVENT REPORT
LTR100203	02/09/2010		NRC LETTER

Narrative:

Pathfinder Energy Services reported abandoning a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #5134GW) and a 0.4 GBq (10.8 mCi) Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-CF-2651) downhole. The well is located in Leon County, Texas. A 1,984 foot cement plug was placed above the logging tool (Pathfinder model SHDSC, serial #D47C272K) and a whipstock was placed above the cement plug.

Event Date: 08/01/2008

Date Reported to Agreement State: 08/01/2008

Discovery Date: 08/01/2008

Date Reported to NRC: 08/05/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05236

Name: PATHFINDER ENERGY SERVICES INC.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: LEON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5134GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-CF-2651

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: PATHFINDER INC.

Model Number: SHDSC

Serial Number: D47C272K

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080021	08/19/2008		AGREEMENT STATE EVENT REPORT
TX-I-8528	08/19/2008		AGREEMENT STATE EVENT REPORT
TX080021A	09/15/2008		AGREEMENT STATE EVENT REPORT
TX-I-8528A	09/15/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Integrated Production Services (IPS, also with KS license number 27-C057-01) reported the abandonment of a 74 GBq (2 Ci) Cs-137 well logging source (AEA Technologies model CDC.CY4, serial #14516B). The well is located in Finney County, Kansas, and was operated by Pioneer Exploration. The tool string became stuck at a depth of 3,696 feet. Three fishing attempts resulted in recovery of entire tool string except for the density measurement pad containing the source. The source is assumed to be at the bottom of the well at a depth of 4,950 feet. There was no indication of a ruptured source. Cement plugs and deflection devices were placed over the source. A placard was placed at the wellhead on 9/17/2008, but deemed unsatisfactory as it was not made of durable material. Another placard was placed at the wellhead on 11/4/2008 and deemed satisfactory.

Event Date: 06/20/2008

Date Reported to Agreement State:

Discovery Date: 06/20/2008

Date Reported to NRC: 06/20/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27763-01

Name: INTEGRATED PRODUCTION SERVICES, LLC

NRC Docket Number: 03036382

City: BROUSSARD

NRC Program Code: 03110

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: FINNEY COUNTY

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 14516B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082040917	08/07/2008		LICENSEE REPORT
KS080013	09/10/2008		AGREEMENT STATE EVENT REPORT
KS080013A	10/13/2008		AGREEMENT STATE EVENT REPORT
KS080013B	01/29/2009		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-L, serial #G4042) and a 63 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A2435). The well is located in Boone County, West Virginia, and was operated by Speed Mining. The sources became stuck on 3/25/2008 and were abandoned on 6/23/2008. The Am-Be source was stuck at a depth of 1,713 feet, and the Cs-137 source was stuck at a depth of 1,723 feet. The depth of the well was 1,725 feet. A cement plug was placed in the well and a plaque was ordered for placement at the well head.

Event Date: 03/25/2008

Date Reported to Agreement State:

Discovery Date: 03/25/2008

Date Reported to NRC: 06/23/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: BOONE COUNTY

State: WEST VIRGINIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: G4042

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2435

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082040079	08/06/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #SS 41795B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #ZDLS 1893). The well is located in federal waters offshore Louisiana at South Marsh Island Block 281 and was operated by Apache Corporation. The sources became stuck on 5/22/2008 and were abandoned on 6/14/2008. The Am-Be source is located at a measured depth of 17,148 feet and the Cs-137 source is located at a measured depth of 17,159 feet. The top of the cement plug is at a measured depth of 14,735 feet. The measured depth of the well is 17,300 feet.

Event Date: 05/22/2008

Date Reported to Agreement State:

Discovery Date: 05/22/2008

Date Reported to NRC: 05/22/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH MARSH ISLAND 281

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: SS 41795B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: ZDLS 1893

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML082000193	08/04/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be source (Gammatron model AN-HP, serial #N357) and a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2159). The well is located offshore Louisiana at Garden Banks Block 515 and was operated by Marathon Oil Company. The sources became stuck on 6/5/2008 and were abandoned on 6/7/2008. The Am-Be source was stuck at a depth of 23,765 feet, and the Cs-137 source was stuck at a depth of 23,768 feet. The depth of the well was 23,918 feet. A cement plug was placed in the well and a plaque was ordered for placement at the well head.

Event Date: 06/05/2008

Date Reported to Agreement State:

Discovery Date: 06/05/2008

Date Reported to NRC: 06/06/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARDEN BANKS BLOCK 515

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-357

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2159

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML081790657	07/07/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 62.9 GBq (1.7 Ci) Cs-137 source (QSA Global model CDC.CY3, serial #A2359) and a 74 GBq (2 Ci) H-3 source (serial #2200-4127) in a pulsed neutron generator. The well is located offshore Louisiana at Green Canyon Block 561 and was operated by Anadarko Petroleum Corporation. The sources became stuck on 5/26/2008 and were abandoned on 5/30/2008. The Cs-137 source was stuck at a depth of 32,302 feet, and the H-3 source was stuck at a depth of 32,294 feet. The depth of the well was 32,404 feet. Four cement plugs were placed in the well and a plaque was ordered for placement at the well head.

Event Date: 05/26/2008

Date Reported to Agreement State:

Discovery Date: 05/26/2008

Date Reported to NRC: 05/27/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 561

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2359

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: 2200-4127

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML081790616	07/07/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY3, serial #PB35954B) and a 92.5 GBq (2.5 Ci) Cs-137 source (QSA Global model CDC.CY4, serial #PP34644B). The well is located in federal waters offshore Louisiana at High Island Block 138 and was operated by LLOG Exploration Offshore, Incorporated. The sources became stuck on 5/16/2008 and were abandoned on 5/25/2008. The Am-Be source is located at a measured depth of 16,284 feet and the Cs-137 source is located at a measured depth of 16,294 feet. The top of the cement plug is at a measured depth of 13,933 feet. The measured depth of the well is 16,861 feet.

Event Date: 05/16/2008

Date Reported to Agreement State:

Discovery Date: 05/16/2008

Date Reported to NRC: 05/23/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: HIGH ISLAND BLOCK 138

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: PB35954B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP34644B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML081790076	07/01/2008		LICENSEE REPORT
ML082590380	09/24/2008		REGION REPORT

Narrative:

Weatherford International (WI) reported a leaking Cs-137 well logging source (AEA Technologies model CDC.CY11, serial #2736GW) that contained an activity of 55.5 GBq (1.5 Ci). The source was leak tested in March 2008 and revealed results of 1.48 kBq (0.04 µCi). However, that source was not taken out of service. WI performed reciprocity well logging work in western Pennsylvania on 4/18/2008 using that same Cs-137 source. They stated that a rag used to clean off the logging tool (serial #MPD 151) was surveyed and identified elevated radiation levels. The tool was removed from service and further leak tests were performed, confirming the presence of radioactive contamination. On 4/19/2008, all likely areas of contamination were surveyed, with none showing greater than 185 Bq (0.005 µCi). WI contacted Nuclear Source and Services (NSSI) for assistance. NSSI responded to the site the week of 4/20/2008 and packaged the source for shipment to Texas for evaluation. NSSI conducted surveys and collected wipe samples of the facility prior to leaving Pennsylvania and identified no evidence of contamination, other than on the well logging tool. Radioactive contamination on the tool was cleaned and re-wiped. Those results revealed no removable contamination. Urine samples were collected from facility employees and sent to GEL Laboratories for analysis. Bioassay results revealed no evidence of Cs-137 uptake above the minimum detection limit of 0.37 Bq/liter (10 pCi/liter). The source was inspected at the NSSI facility prior to being sent to the manufacturer for inspection.

Event Date: 03/01/2008

Date Reported to Agreement State:

Discovery Date: 04/18/2008

Date Reported to NRC: 04/18/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: 03030118

City: FORT WORTH

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: ELDERTON

State: PENNSYLVANIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

Event Cause:

EQP

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

LKS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

LKS

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

LKS

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY11	IAEA Category:	4
Serial Number:	2736GW		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY11	IAEA Category:	4
Serial Number:	2736GW	Leak Test Result:	0.04 µCi (40 nCi or 1.48 kBq)

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	MPD 151

LKS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	MPD 151

Reporting Requirements:

EQP

30.50(b)(2) - Equipment is disabled or fails to function as designed.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LKS

39.35(d)(1) - Well logging source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
PA080008	06/25/2008		AGREEMENT STATE EVENT REPORT
LTR080701	07/01/2008		AGREEMENT STATE LETTER
LTR080716	07/17/2008		NRC LETTER
LTR081028	11/04/2008		NRC LETTER
PA080008A	12/01/2009		AGREEMENT STATE EVENT REPORT
EN45659	01/28/2010		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

Narrative:

Log-Tech Incorporated reported the abandonment of an irretrievable well logging source (Gulf Nuclear model CSV, serial #03) that contained Cs-137 with an activity of 74 GBq (2 Ci). The source became stuck during logging operations at a well in Ness County, Kansas, at 4,608 feet. The source was initially stuck on 6/13/2006. Log-Tech hired B&G Production as a consultant. Following three fishing attempts, the source was determined irretrievable. Abandonment procedures commenced on 6/14/2006. Well abandonment was complete on 6/23/2006, including plaque placement. Twenty-five bags of red-dyed cement were added to the well and the top of the plug was at 4,520 feet. A well-head plaque was placed on the surface pipe.

Event Date: 06/13/2006

Date Reported to Agreement State: 07/23/2006

Discovery Date: 06/13/2006

Date Reported to NRC: 06/12/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: KS-27-B565-01

Name: LOG-TECH INC.

NRC Docket Number: NA

City: HAYS

NRC Program Code: NA

State: KANSAS

NRC Region: 4

Zip Code: 67601

Site of Event:

Site Name: NESS COUNTY

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: 03

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
KS060009	06/19/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes Oilfield Operations (dba Baker Atlas) reported the loss of a pulsed neutron generator (Baker Hughes model 58301, serial #173102) that contained approximately 33.3 GBq (900 mCi) of H-3 (source #183619). The device was lost in the waters of the Mississippi River. A commercial hotshot carrying two complete pulsed neutron generators was dispatched to the Hilcorp dock in Cocodrie, Louisiana, from the Baker Atlas facility at 0300 hours on 5/29/2008. The devices arrived at the dock at 0500 hours on the same day. The shipment was verified by the Hilcorp dock dispatcher and loaded onto a Hilcorp-contracted crew boat. The shipment arrived at Hilcorp S/L 3090 #7, in the Little Pass field at approximately 0700 hours. Upon arrival, the Hilcorp representative noted that the aluminum tubes containing the Baker Atlas downhole tools were not strapped down and were extended over the rail of the boat. It was determined that one tube containing both the upper and lower section of a pulsed neutron generator was missing. Hilcorp dispatched a crew boat back to the dock to conduct a visual search of the route and dock, but the device was not found. Corrective actions included procedure modifications requiring securing radioactive material during transportation on land or water. The Louisiana Department of Environmental Quality is tracking the incident as number LA0800011.

Event Date: 05/29/2008

Date Reported to Agreement State: 06/03/2008

Discovery Date: 05/29/2008

Date Reported to NRC: 06/03/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2187-L01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: COCODRIE

State: LOUISIANA

Additional Involved Party:

License Number: NR

Name: HILCORP

NRC Docket Number: NR

City: COCODRIE

NRC Program Code: NR

State: LOUISIANA

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 0.9 Ci (900 mCi or 33.3 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: 183619

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON

Model Number: 58301

Manufacturer: BAKER HUGHES

Serial Number: 173102

Reporting Requirements:

LAS

20.2201(a)(1)(ii) - Lost, stolen, or missing licensed material in a quantity greater than 10 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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EN44259	06/09/2008		
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			EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
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LTR080730	08/11/2008		
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			AGREEMENT STATE LETTER
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Narrative:

Integrated Production Services reported that a well logging tool (Probe Technologies serial #070428) that contained a Cs-137 source (Gulf Nuclear model CSV, serial #520) with an activity of 74 GBq (2 Ci) and an Am-Be source with an activity of 555 GBq (15 Ci) became stuck at a depth of 7,800 feet. Two attempts to retrieve the tool were unsuccessful, but on the third attempt the tool separated and the Am-Be source was retrieved. The Cs-137 source was not recovered and was abandoned at a depth of 7,771 feet. A 200-foot cement plug containing red dye was placed directly above the Cs-137 source. A diversion tool was placed above the plug and another 200-foot cement plug containing red dye was placed above the diversion tool. A plaque was ordered for placement on the wellhead.

Event Date: 05/12/2008

Date Reported to Agreement State: 05/12/2008

Discovery Date: 05/12/2008

Date Reported to NRC: 05/22/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L06051

Name: INTEGRATED PRODUCTION SERVICES

NRC Docket Number: NA

City: IOWA PARK

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76367

Site of Event:

Site Name: IOWA PARK

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: 520

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: PROBE TECHNOLOGIES

Serial Number: 070428

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080014	05/29/2008		AGREEMENT STATE EVENT REPORT
TX080014A	05/29/2008		AGREEMENT STATE EVENT REPORT
TX-I-8517	05/29/2008		AGREEMENT STATE EVENT REPORT
TX-I-8517A	05/29/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation (STC) reported that a well logging tool, containing a Cs-137 source (Amersham model CDC.CY3, serial #A2562) with an activity of 62.9 GBq (1.7 Ci) and an H-3 source (Schlumberger model PNG, serial #2212-4129) with an activity of 59.2 GBq (1.6 Ci), was stuck downhole. The well is located in Ventura County, California, at Vantage Production California. STC conducted fishing operations from 4/11 to 4/20/2008, but were unable to recover the tool/sources. Neither source was compromised. STC will abandon the sources in compliance with the terms and conditions of their license, and in compliance with all requirements of the Division of Oil, Gas, and Geothermal Resources.

Event Date: 04/11/2008

Date Reported to Agreement State: 04/29/2008

Discovery Date: 04/11/2008

Date Reported to NRC: 05/08/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: VENTURA COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2562

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: SCHLUMBERGER

Activity: 1.6 Ci (59.2 GBq)

Model Number: PNG

IAEA Category: NA

Serial Number: 2212-4129

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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CA-XCA1251	05/21/2008		AGREEMENT STATE EVENT REPORT
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LTR081120	11/24/2008		AGREEMENT STATE LETTER
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Narrative:

ProTechnics (Division of Core Laboratories) reported that a well logging tool containing an Am-241 source (Gammatron model AN-HP, serial #SST-003) with an activity of 7.4 MBq (200 µCi) was lodged in a gas well on 12/22/2007. The well is located in Garfield County, Colorado. ProTechnics attempted to retrieve the source, but exhausted those efforts. The source is located at a depth of 9,876 feet. Approval was requested to abandon the source. The Colorado State Department of Public Health and Environment concluded that ProTechnics could cement the tool in place and install a diversion device below the production zone, with a 15 foot concrete plug and a plaque mounted on the well head. ProTechnics stated that concrete and a non-drillable bit were placed above the tool at a depth of 9,855 feet.

Event Date:	12/22/2007	Date Reported to Agreement State:	03/12/2008
Discovery Date:	12/22/2007	Date Reported to NRC:	04/21/2008

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CO-545-01	Name:	PROTECHNICS
NRC Docket Number:	NA	City:	TRINIDAD
NRC Program Code:	NA	State:	COLORADO
NRC Region:	4	Zip Code:	81082

Site of Event:

Site Name:	GARFIELD COUNTY	State:	COLORADO
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-241
Manufacturer:	GAMMATRON	Activity:	0.0002 Ci (200 µCi or 7.4 MBq)
Model Number:	AN-HP	IAEA Category:	5
Serial Number:	SST-003		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR080501	05/12/2008		AGREEMENT STATE LETTER
CO08-I08-07	10/30/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported the loss and recovery of an Am-Be source (model AMNV.340, serial #11062567) that contained an activity of 3.7 GBq (100 mCi). It was determined that Texas Hot Shot responded to Elite Air Freight on 4/9/2008 and loaded a fireboard box, which contained the Am-Be source, onto their truck. The driver strapped the box onto a flatbed truck, tightening the straps to the point of crushing the box. The driver proceeded to China Airlines and, upon arrival, noticed that the box was missing. Halliburton received a telephone call from a Lufthansa Airline employee that had found the box on the road by the airport. Halliburton dispatched someone to retrieve the source. The source was taken back to their facility and determined to be in its case and undamaged. Corrective actions taken by Texas Hot Shot included modifying procedures to require packages be strapped with two straps in a crossing pattern, blocked if necessary, and transported on a stake-bed truck. Personnel received new training and the driver was reprimanded.

Event Date: 04/09/2008

Date Reported to Agreement State: 04/09/2008

Discovery Date: 04/09/2008

Date Reported to NRC: 04/09/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00442

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NON-LICENSEE

Name: TEXAS HOT SHOT

NRC Docket Number: NA

City: NR

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

PERSONNEL REPRIMANDED

PERSONNEL RECEIVE NEW TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: HALLIBURTON

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: AMNV.340

IAEA Category: 4

Serial Number: 11062567

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080012	04/28/2008		AGREEMENT STATE EVENT REPORT
TX-I-8502	04/28/2008		AGREEMENT STATE EVENT REPORT
TX080012A	06/11/2008		AGREEMENT STATE EVENT REPORT
TX-I-8502A	06/11/2008		AGREEMENT STATE EVENT REPORT
LTR080701	07/02/2008		AGREEMENT STATE LETTER
TX080012B	07/09/2008		AGREEMENT STATE EVENT REPORT
TX-I-8502B	07/09/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of a well logging tool that contained a Cs-137 source (AEA Technologies model CDC.CY6, serial #5084) with an activity of 62.9 GBq (1.7 Ci) and a Cf-252 source (Frontier Technology model 100SNS, serial #FTC-CF-2643) containing an activity of 0.4 GBq (10.8 mCi). The well is located in Chambers County, Texas. The tool was abandoned according to procedure on 3/22/2008. Approximately 451 feet of drill pipe was left above the well logging tool as a deflector and 580 feet of iron oxide cement was pumped downhole. The wellhead was properly placarded.

Event Date: 03/20/2008

Date Reported to Agreement State: 03/20/2008

Discovery Date: 03/20/2008

Date Reported to NRC: 03/24/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05236

Name: PATHFINDER ENERGY SERVICES INC.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: CHAMBERS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5084

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-2643

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080009	04/02/2008		AGREEMENT STATE EVENT REPORT
TX-I-8498	04/02/2008		AGREEMENT STATE EVENT REPORT
TX080009A	05/06/2008		AGREEMENT STATE EVENT REPORT
TX-I-8498A	05/06/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes reported the theft of a company truck that contained four neutron generators (Baker Hughes model 58301, serial #189496, 189707, 370453, and 370457), with 37 GBq (1 Ci) H-3 sources in each, and one well logging tool with a 3.7 GBq (100 mCi) Cs-137 source (Gulf Nuclear model CS-2, serial #S3H0112). The truck was stolen the morning of 3/20/2008 from a hotel in Pharr, Texas. The Pharr Police Department was notified of the theft. The truck was recovered on 3/30/2008 just south of Falfurrias, Texas. However, the neutron generators and well logging tool were still missing. On 4/6/2008, Baker Hughes stated that the well logging tool with the Cs-137 source was recovered near the intersection of Bensen Palms Road and Orange Grove Drive in Mission, Texas. The padlock was intact. Baker Hughes dispatched their District Manager and an engineer to the location to take possession of the source and transport it to their storage facility. The manager confirmed that the source was intact and conducted an area survey to confirm that no radioactive contamination had occurred. There was no sign of the missing neutron generators. Corrective actions included procedure modifications.

Event Date: 03/20/2008

Date Reported to Agreement State: 03/20/2008

Discovery Date: 03/20/2008

Date Reported to NRC: 03/20/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446-026

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: PEARLAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77581

Site of Event:

Site Name: PHARR

State: TEXAS

Additional Involved Party:

License Number: NR

Name: NR

NRC Docket Number: NR

City: NR

NRC Program Code: NR

State: NR

NRC Region: NR

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / THEFT, SABOTAGE, OR VANDALISM

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: BAKER HUGHES

Activity: 1 Ci (37 GBq)

Model Number: NA

IAEA Category: NA

Serial Number: NA

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: BAKER HUGHES

Activity: 1 Ci (37 GBq)

Model Number: NA

IAEA Category: NA

Serial Number: NA

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	H-3
Manufacturer:	BAKER HUGHES	Activity:	1 Ci (37 GBq)
Model Number:	NA	IAEA Category:	NA
Serial Number:	NA		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	H-3
Manufacturer:	BAKER HUGHES	Activity:	1 Ci (37 GBq)
Model Number:	NA	IAEA Category:	NA
Serial Number:	NA		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	0.1 Ci (100 mCi or 3.7 GBq)
Model Number:	CS-2	IAEA Category:	4
Serial Number:	S3H0112		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	GENERATOR, NEUTRON	Model Number:	58301
Manufacturer:	BAKER HUGHES	Serial Number:	189496

Device Number: 2

Device Name:	GENERATOR, NEUTRON	Model Number:	58301
Manufacturer:	BAKER HUGHES	Serial Number:	189707

Device Number: 3

Device Name:	GENERATOR, NEUTRON	Model Number:	58301
Manufacturer:	BAKER HUGHES	Serial Number:	370453

Device Number: 4

Device Name:	GENERATOR, NEUTRON	Model Number:	58301
Manufacturer:	BAKER HUGHES	Serial Number:	370457

Device Number: 5

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
 39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL STOLEN AND PARTIALLY RECOVERED
 TRILATERAL TO MEXICO

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN44079	03/25/2008		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX080008	03/25/2008		AGREEMENT STATE EVENT REPORT
TX-I-8496	03/25/2008		AGREEMENT STATE EVENT REPORT
EN44079A	04/02/2008		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
EN44079B	04/09/2008		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX080008A	04/09/2008		AGREEMENT STATE EVENT REPORT
TX-I-8496A	04/09/2008		AGREEMENT STATE EVENT REPORT
TX080008B	05/08/2008		AGREEMENT STATE EVENT REPORT
TX-I-8496B	05/08/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Weatherford International reported that a well logging tool became stuck downhole. While trying to retrieve the tool, it separated and the section containing the Am-Be source was recovered. Further fishing attempts broke the remaining part of the tool and the Cs-137 source (QSA Global model CDC.CY11, serial #P21147B) fell to the bottom of the well. The source contained an activity of 55.5 GBq (1.5 Ci). Radiation surveys conducted throughout fishing operations did not indicate any source leakage. Weatherford determined that the source was at the bottom of the well, below the 7,163 foot level. A 420-foot red-dye cement plug was placed directly above the source and a wipstock plug above the cement.

Event Date: 03/06/2008

Date Reported to Agreement State: 03/06/2008

Discovery Date: 03/06/2008

Date Reported to NRC: 03/06/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: WEATHERFORD INTERNATIONAL

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: FORT WORTH

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY11

IAEA Category: 4

Serial Number: P21147B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX080003	03/19/2008		AGREEMENT STATE EVENT REPORT
TX080003A	04/02/2008		AGREEMENT STATE EVENT REPORT
TX-I-8490	04/02/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Halliburton Energy Services reported that a logging tool containing a Cs-137 source (Amersham model CDC.CY, serial #2547GW) with an activity of 55.5 GBq (1.5 Ci) was irretrievably stuck downhole on 2/14/2008. On 2/15/2008, following fishing operations, they determined that the Cs-137 source could not be retrieved. The tool containing the Am-Be source was retrieved and did not appear to be damaged. The well is located at the Oxy Elk Hills Field in Tupman, California. The Cs-137 source is located at a depth of approximately 7,288 feet. The well is operated by Occidental Petroleum Company. Abandonment will be performed pursuant to the radioactive materials license conditions and CA Department of Oil, Gas, and Geothermal Resources approval. Approval to abandon the Cs-137 source was granted by the California Radiologic Health Branch.

Event Date: 02/14/2008

Date Reported to Agreement State: 02/15/2008

Discovery Date: 02/15/2008

Date Reported to NRC: 02/19/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0782-15

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93307

Site of Event:

Site Name: TUPMAN

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY

IAEA Category: 4

Serial Number: 2547GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1216	03/03/2008		AGREEMENT STATE EVENT REPORT
LTR080418	04/23/2008		AGREEMENT STATE LETTER
LTR081209	12/10/2008		AGREEMENT STATE LETTER

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5139GW) and a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-008). The well is located in federal waters offshore Louisiana at West Cameron Block 78 and was owned by Virgin Offshore USA. The sources became stuck on 1/16/2008 and were abandoned on 1/25/2008. The Cs-137 source is located at a measured depth of 11,998 feet and the Am-Be source is located at a measured depth of 11,993 feet. The measured depth of the well is 12,132 feet. The depth of the top of the cement plug is 5,780 feet.

Event Date: 01/16/2008

Date Reported to Agreement State:

Discovery Date: 01/16/2008

Date Reported to NRC: 01/20/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: WEST CAMERON BLOCK 78

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5139GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-008

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML080510597	02/21/2008		LICENSEE REPORT
ML081270101	05/13/2008		REGION REPORT

Narrative:

Weatherford International reported the abandonment of two irretrievable well logging sources, including a 666 GBq (18 Ci) Am-Be source (AEA Technology model AMN.CY20, serial #08145B) and a 74 GBq (2 Ci) Cs-137 source (AEA Technologies model CDC.CY6, serial #06956B). The well is located in federal waters offshore Louisiana at Eugene Island Block 152 and was operated by LLOA Exploration Offshore, Incorporated. The sources became stuck on 1/27/2008 and were abandoned on 1/28/2008. The Am-Be source is located at a measured depth of 21,660 feet and the Cs-137 source is located at a measured depth of 21,665 feet. The depth of the well is 12,737 feet. The depth of the deflection device is 11,478 feet and the cement plug is between 21,237 feet and 21,737 feet.

Event Date: 01/27/2008

Date Reported to Agreement State:

Discovery Date: 01/27/2008

Date Reported to NRC: 01/28/2008

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: WEATHERFORD INTERNATIONAL, INC.

NRC Docket Number: 03030118

City: FORT WORTH

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: EUGENE ISLAND BLOCK 152

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 18 Ci (666 GBq)

Model Number: AMN.CY20

IAEA Category: 2

Serial Number: 08145B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 06956B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML080430689	02/14/2008		LICENSEE REPORT
ML081000628	04/14/2008		REGION REPORT

Narrative:

Precision Energy Services reported the abandonment of two well logging sources. One source (AEA Technologies model AMN.CY20, serial #06906B) contained Am-Be with an activity of 666 GBq (18 Ci) and the other source (AEA Technologies model CDC.CY16, serial #3050GW) contained Cs-137 with an activity of 74 GBq (2 Ci). On 6/11/2007 during drilling operations, the rig took a kick of high pressure that hit the surface. For safety reasons, all rig crew and Precision personnel abandoned the rig due to potential blowout of the well. The well had been in a pressure control situation and, due to the dangers of a blowout, there were no attempts to retrieve the logging sources. In October 2007, the decision to abandon the sources was made by Nexen Petroleum, but the abandonment details could not be worked out until November 2007 due to well conditions. The drill string assembly was severed at approximately 18,750 feet. A cement plug was set from 20,404 feet up to 18,500 feet, immobilizing the remaining drill string assembly and sources in place. The remaining drill string assembly (approximately 600 feet of 5-inch drill pipe, approximately 700 feet of 5-inch to 6.5-inch heavy wall drill pipe, and approximately 150 feet of 6.5-inch drill collars) will act as a deflection device.

Event Date: 06/11/2007

Date Reported to Agreement State: 06/11/2007

Discovery Date: 06/11/2007

Date Reported to NRC: 02/11/2008

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: PRECISION ENERGY SERVICES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: VERMILION BLOCK

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 18 Ci (666 GBq)

Model Number: AMN.CY20

IAEA Category: 2

Serial Number: 06906B

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY16	IAEA Category:	4
Serial Number:	3050GW		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA070029	02/13/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Century Geophysical Corporation reported the abandonment of an irretrievable 11.1 GBq (300 mCi) Cs-137 well logging source (Isotope Products model A3015, serial #CZ-1107). The well is located in Marian County, West Virginia. The source became stuck on 9/28/2007 and abandonment procedures took place on 10/4/2007. The source is located at the bottom of the well at a depth of 1,620 feet.

Event Date: 09/28/2007

Date Reported to Agreement State:

Discovery Date: 09/28/2007

Date Reported to NRC: 10/31/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 35-04017-04

Name: CENTURY GEOPHYSICAL CORP.

NRC Docket Number: 03011376

City: TULSA

NRC Program Code: 03111

State: OKLAHOMA

NRC Region: 4

Zip Code: 74115

Site of Event:

Site Name: MARIAN COUNTY

State: WEST VIRGINIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: ISOTOPE PRODUCTS LAB

Activity: 0.3 Ci (300 mCi or 11.1 GBq)

Model Number: A3015

IAEA Category: 4

Serial Number: CZ-1107

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML080300436	02/13/2008		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources, including a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-031) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2759GW). The well is located in federal waters offshore Louisiana at High Island A-309 #C4 and was operated by Badger Oil Corporation. The sources became stuck on 6/24/2007 and recovery efforts continued until 6/28/2007. The Am-Be source is located at a measured depth of 4616 feet and the Cs-137 source is located at a measured depth of 4623 feet. The measured depth of the well is 5376 feet.

Event Date: 06/24/2007

Date Reported to Agreement State:

Discovery Date: 06/24/2007

Date Reported to NRC: 06/28/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: HIGH ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMA INDUSTRIES

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-031

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2759GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML080150320	02/12/2008		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (QSA Global model AMN.CY20, serial #25560B) and a 92 GBq (2.49 Ci) Cs-137 source (QSA Global model CDC.CY16, serial #27821B). The well is located in federal waters offshore Louisiana. The Am-Be source is located at a depth of 4584 feet and the Cs-137 source is located at a depth of 4591 feet. The top of the fish is at 4351 feet and the top of the cement is at 3779 feet.

Event Date: 07/05/2007

Date Reported to Agreement State:

Discovery Date: 07/05/2007

Date Reported to NRC: 07/05/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: OFFSHORE

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: QSA GLOBAL, INC.

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY20

IAEA Category: 3

Serial Number: 25560B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: QSA GLOBAL, INC.

Activity: 2.49 Ci (92.13 GBq)

Model Number: CDC.CY16

IAEA Category: 4

Serial Number: 27821B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071900434	02/12/2008		NRC LETTER
ML080390297	02/13/2008		REGION REPORT
LTR080229	03/04/2008		NRC LETTER

Narrative:

Halliburton Energy Services reported that a well logging tool containing a 703 GBq (19 Ci) Am-Be source (AEA Technologies model X2173, serial #0347NN) and a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #16166B) was abandoned downhole. The well is located in the Alpine Field in North District, Alaska, and is owned by Conoco Phillips. The sources became stuck on 12/23/2007. The Am-Be source is at a measured depth of 15,217 feet and the Cs-137 source is located at a measured depth of 15,230 feet. The measured depth to the bottom of the well is 15,431 feet. Approval to abandon the sources was requested on 12/29/2007.

Event Date: 12/23/2007

Date Reported to Agreement State:

Discovery Date: 12/23/2007

Date Reported to NRC: 12/29/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH SLOPE BOROUGH

State: ALASKA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 19 Ci (703 GBq)

Model Number: X2173

IAEA Category: 2

Serial Number: 0347NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 16166B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML080100169	01/21/2008		OTHER
ML080390386	02/13/2008		LICENSEE REPORT
ML081270101	05/13/2008		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of an irretrievable 62.9 GBq (1.7 Ci) Cs-137 well logging source (model GGLS-D, serial #A2551). The well is located offshore Louisiana and was operated by Anglo-Suisse Offshore LLC. The source was stuck at a depth of 8919 feet. Fishing efforts began on 12/17/2007 and approval to abandon the source was requested on 12/20/2007.

Event Date: 12/17/2007

Date Reported to Agreement State:

Discovery Date: 12/17/2007

Date Reported to NRC: 12/20/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GULF OF MEXICO

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: GGLS-D

IAEA Category: 4

Serial Number: A2551

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML073600899	01/07/2008		LICENSEE REPORT
ML080390297	02/13/2008		REGION REPORT

Narrative:

Halliburton Energy Services reported that a well logging tool containing an Am-Be source (AEA Technologies model X2063/1, serial #DSN-352) with an activity of 555 GBq (15 Ci) and a Cs-137 source (Gammatron model AN-HP/MP-35N, serial #3021 GW) with an activity of 55.5 GBq (1.5 Ci) was abandoned downhole on 11/3/2007. The well is located in Loving County, Texas. The sources were abandoned at depths of 17,755 and 17,730 feet. A 221-foot cement plug was placed above the tool and a steel plate was placed on top of the plug to act as a kickoff. A warning plaque has been ordered and will be placed at the well head.

Event Date: 11/03/2007

Date Reported to Agreement State: 11/30/2007

Discovery Date: 11/03/2007

Date Reported to NRC: 12/11/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-02113-062

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: LOVING COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 15 Ci (555 GBq)

Model Number: X2063/1

IAEA Category: 3

Serial Number: DSN-352

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 1.5 Ci (55.5 GBq)

Model Number: AN-HP

IAEA Category: 4

Serial Number: 3021 GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX070023	12/13/2007		AGREEMENT STATE EVENT REPORT
TX-I-8461	12/13/2007		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #A2433) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A5093). The well is located in Pescado field offshore California and was operated by Exxon Mobil. The sources became stuck on 5/19/2007 and were abandoned on 5/25/2007. The Am-Be source was stuck at a depth of 13,991 feet, and the Cs-137 source was stuck at a depth of 14,003 feet. The depth of the well was 14,111 feet. A cement plug was placed in the well and a plaque was ordered for placement at the well head.

Event Date: 05/19/2007

Date Reported to Agreement State:

Discovery Date: 05/19/2007

Date Reported to NRC: 05/22/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: PESCADO FIELD

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2433

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5093

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071790044	12/11/2007		LICENSEE REPORT
ML080170247	01/24/2008		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #A2562) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technologies model CDC.CY3, serial #A5176). The well is located in Sublette County, Wyoming, and was operated by EnCana Oil & Gas (USA), Incorporated. The sources became stuck on 10/20/2007 and were abandoned on 10/27/2007. The Am-Be source was stuck at a depth of 8,770 feet, and the Cs-137 source was stuck at a depth of 8,783 feet. The depth of the well was 12,745 feet. Six cement plugs were placed in the well and a plaque was ordered for placement at the well head.

Event Date: 10/20/2007

Date Reported to Agreement State:

Discovery Date: 10/20/2007

Date Reported to NRC: 10/27/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUBLETTE COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2562

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5176

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML073201184	12/10/2007		LICENSEE REPORT
ML081000628	04/14/2008		REGION REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two well logging sources, including an Am-Be source (Gammatron model NSR-F, serial #A2631) with an activity of 592 GBq (16 Ci) and a Cs-137 source (AEA Technologies model CDC.CY3, serial #A5074) with an activity of 62.9 GBq (1.7 Ci). The well is located in Bee County, Texas. The sources became stuck on 9/13/2007 at a depth of between 8,461 and 9,479 feet. The top of the well logging tool is at 8,430 feet. The licensee placed a 400-foot red-dyed cement plug above the tool from 8,348 feet to 7,984 feet. A second cement plug was placed from 7,984 feet to 7,848 feet. A bridge plug and whip stock were placed on top of the second cement plug. A plaque was ordered for placement at the well head.

Event Date: 09/13/2007

Date Reported to Agreement State: 09/13/2007

Discovery Date: 09/13/2007

Date Reported to NRC: 10/03/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: BEE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2631

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5074

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8443	10/11/2007		AGREEMENT STATE EVENT REPORT
TX070016	11/08/2007		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes Oilfield Operations reported the abandonment of two irretrievable well logging sources, including a 185 GBq (5 Ci) Am-Be source (serial #PP35953B) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #PP19751B). The well is located in federal waters offshore Louisiana at Green Canyon Block 726. The well was operated by Anadarko Petroleum Corporation. The Am-Be source is located at a measured depth of 23,223.44 feet (22,998.01 feet vertical depth) and the Cs-137 source is located at a measured depth of 23,233.85 feet (23,007.41 feet vertical depth). The measured depth of the well is 24,213 feet (23,892 feet vertical depth).

Event Date: 09/01/2007

Date Reported to Agreement State:

Discovery Date: 09/01/2007

Date Reported to NRC: 09/01/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GREEN CANYON BLOCK 726

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: PP35953B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP19751B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML072550604	09/25/2007		LICENSEE REPORT
ML081720588	07/09/2008		REGION REPORT

Narrative:

Baker Hughes reported the abandonment of two well logging sources that included an Am-Be source (AEA Technology model AMN.CY3, serial #25568B) with an activity of 185 GBq (5 Ci) and a Cs-137 source (AEA Technology model CDC.CY4, serial # PP08228B) with an activity of 92.5 GBq (2.5 Ci). Operations were being performed in Webb County and the sources were stuck at a depth of 8,492 feet on 9/7/2007. A 558-foot cement plug was placed on top of the sources and a wipstock was placed on top of the plug. A plaque for the well head was ordered.

Event Date: 09/07/2007

Date Reported to Agreement State: 09/07/2007

Discovery Date: 09/07/2007

Date Reported to NRC: 09/11/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: ASAS

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: LAFAYETTE

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: WEBB COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: AMN.CY3

IAEA Category: 3

Serial Number: 25568B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: PP08228B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8440	09/24/2007		AGREEMENT STATE EVENT REPORT
TX-I-8440A	09/24/2007		AGREEMENT STATE EVENT REPORT
TX-I-8440B	10/17/2007		AGREEMENT STATE EVENT REPORT
LTR071029	10/29/2007		AGREEMENT STATE LETTER

Narrative:

Baker Hughes Intec reported the abandonment of two well logging sources that included an Am-Be source (AEA Technologies serial #PP0081NN) with an activity of 185 GBq (5 Ci) and a Cs-137 source (AEA Technologies serial #PP18207B) with an activity of 92.5 GBq (2.5 Ci). The sources were stuck at depths of 15,133 and 15,142 feet. The well logging tool became stuck on 7/14/2007. A cement plug was set at a depth of 14,462 feet. The sources were abandoned according to procedure.

Event Date: 07/14/2007

Date Reported to Agreement State: 08/18/2007

Discovery Date: 07/14/2007

Date Reported to NRC: 08/30/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: BROUSSARD

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: PP0081NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP18207B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA070024	09/12/2007		AGREEMENT STATE EVENT REPORT
LA070024A	02/13/2008		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two well logging sources that included an Am-Be source (AEA Technologies model CDC.CY11, serial #2860GW) with an activity of 185 GBq (5 Ci) and a Cs-137 source (AEA Technologies model AMN.CY4, serial #0202NN) with an activity of 55.5 GBq (1.5 Ci). The sources were stuck at a depth of 12,855 feet. The well logging tool became stuck on 6/27/2007 and recovery efforts were ongoing until 7/2/2007. The sources could not be retrieved. A red-dye cement plug was set at a depth of 12,600 to 12,840 feet. A second cement plug was set at a depth of 12,100 to 12,500 feet. A whipstock was set at a depth of 12,010 feet. A plaque containing all of the required information will be placed on the well.

Event Date: 06/27/2007

Date Reported to Agreement State: 07/23/2007

Discovery Date: 06/27/2007

Date Reported to NRC: 08/30/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: PRECISION ENERGY SERVICES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: BROUSSARD

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: CDC.CY11

IAEA Category: 3

Serial Number: 2860GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.5 Ci (55.5 GBq)

Model Number: AMN.CY4

IAEA Category: 4

Serial Number: 0202NN

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA070022

09/12/2007

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two well logging sources that included an Am-Be source (Gammatron model AN-HP, serial #DNS 024) with an activity of 296 GBq (8 Ci) and a Cs-137 source (AEA Technologies model CDC.CY6, serial #3016GW) with an activity of 55.5 GBq (1.5 Ci). The sources were stuck at depths of 10,832 and 10,837 feet. A 250-sack cement plug was set at a depth of 10,907 to 10,307 feet. A sidetrack plug was set from the top of the fish at 4,250 to 3,585 feet, leaving 6,120 feet of drill pipe on top of the sources to act as a mechanical deflection device. A plaque will be placed on the well head containing the required information.

Event Date: 06/04/2007

Date Reported to Agreement State: 06/04/2007

Discovery Date: 06/04/2007

Date Reported to NRC: 08/30/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-9089-L01

Name: PATHFINDER ENERGY SERVICES

NRC Docket Number: NA

City: LAFAYETTE

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70505

Site of Event:

Site Name: LAFAYETTE

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-024

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 3016GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA070013 09/10/2007 AGREEMENT STATE EVENT REPORT

Narrative:

Precision Energy Services reported the abandonment of a 55.5 GBq (1.5 Ci) Cs-137 well logging source. During fishing operations, part of the well logging tool and the Am-Be source were recovered. The well is located in Sweetwater County, Wyoming, and was operated by Devon Energy. The Cs-137 source is located at a depth of 10,775 feet. The depth of the well is 10,776 feet. A deflection device and 300 feet of cement were placed above the source. INL has requested additional information for this event.

Event Date: 08/14/2007

Date Reported to Agreement State:

Discovery Date: 08/14/2007

Date Reported to NRC: 08/14/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: PRECISION ENERGY SERVICES, INC.

NRC Docket Number: 03030118

City: FORT WORTH

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: SWEETWATER COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.5 Ci (55.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML072350456	09/05/2007		LICENSEE REPORT
ML080170247	01/24/2008		REGION REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of two irretrievable well logging sources. The sources included a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5087GW) and a 296 GBq (8 Ci) Am-Be source (Gammatron model 100S, serial #DNS-063). The well is located in federal waters offshore Louisiana at West Cameron Block 168. Pathfinder placed a 500-foot cement plug and 458-feet of metal pipe as a deflection device above the sources. INL has requested additional information for this event.

Event Date: 08/15/2007

Date Reported to Agreement State:

Discovery Date: 08/15/2007

Date Reported to NRC: 08/15/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: WEST CAMERON BLOCK 168

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5087GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: 100S

IAEA Category: 3

Serial Number: DNS-066

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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ML072280037	08/23/2007		NRC LETTER
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ML080170247	01/24/2008		REGION REPORT
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Narrative:

Sonic Surveys reported that a Co-60 well logging source (Isotope Products Laboratories model HEG-060, serial #S/N001/01), which contained an activity of 9.25 GBq (250 mCi), was reported lost in a liquefied petroleum gas storage cavern. The wire rope broke at the point of attachment to the tool. The bottom of the cavern consists of sludge, so fishing operations are not considered feasible. The source was abandoned at a depth of 3,186 feet. A cement plug is not possible because this is a non-traditional logging operation. Sonic Surveys will place a warning plaque at the well head. The source will maintain integrity and will not leak into the environment or product.

Event Date: 08/07/2007

Date Reported to Agreement State: 08/07/2007

Discovery Date: 08/07/2007

Date Reported to NRC: 08/10/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02622

Name: SONIC SURVEYS

NRC Docket Number: NA

City: MONT BELVIEU

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77580

Site of Event:

Site Name: MONT BELVIEU

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CO-60

Manufacturer: ISOTOPE PRODUCTS LAB

Activity: 0.25 Ci (250 mCi or 9.25 GBq)

Model Number: HEG-060

IAEA Category: 4

Serial Number: S/N001/01

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8432	08/23/2007		AGREEMENT STATE EVENT REPORT
TX-I-8432A	08/23/2007		AGREEMENT STATE EVENT REPORT
LTR080228	02/28/2008		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology Corporation reported the abandonment of two irretrievable well logging sources, including a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-L, serial #G4034) and a 63 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2109). The well is located in federal waters offshore Louisiana at South Marsh Island Block 212. The well was operated by McMoRan Oil and Gas Company. The sources became stuck on 8/2/2007 and attempts to recover the sources continued until 8/8/2007. Abandonment efforts were completed on 8/24/2007. The Am-Be source is located at a depth of 17,711 feet and the Cs-137 source is located at a depth of 17,731 feet. The measured depth of the well is 18,122 feet.

Event Date: 08/02/2007

Date Reported to Agreement State:

Discovery Date: 08/02/2007

Date Reported to NRC: 08/07/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SOUTH MARSH ISLAND 212

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: G4034

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2109

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML072200339	08/15/2007		LICENSEE REPORT
ML072350490	09/05/2007		LICENSEE REPORT
ML072670492	02/12/2008		LICENSEE REPORT
ML080390297	02/13/2008		REGION REPORT
ML080640336	03/07/2008		LICENSEE REPORT
ML080800303	04/14/2008		REGION REPORT

Narrative:

The licensee reported the abandonment of two well logging sources including an Am-Be source (AEA Technology model AMN.CYN, serial #28051B) with an activity of 666 GBq (18 Ci) and a Cs-137 source (AEA Technology model CDC.CYN, serial #27786B) with an activity of 92.5 GBq (2.5 Ci). The sources became stuck at a depth of 8,570 feet. The well had collapsed at the 5,300 foot depth and fishing operations could not be attempted. The licensee poured 550 feet of cement down the hole and placed a diversion device on top of the cement plug. A permanent identification plaque was placed at the surface of the well as required.

Event Date: 05/15/2007

Date Reported to Agreement State: 05/15/2007

Discovery Date: 05/15/2007

Date Reported to NRC: 07/23/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NRCAS

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: NR

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 18 Ci (666 GBq)

Model Number: AMN.CYN

IAEA Category: 2

Serial Number: 28051B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CYN

IAEA Category: 4

Serial Number: 27786B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

UT070004

08/07/2007

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two well logging sources including an Am-Be source (Gammatron model NSR-F, serial #G5137) with an activity of 592 GBq (16 Ci) and a Cs-137 source (AEA Technology model CDC.CYN, serial #A5286) with an activity of 62.9 GBq (1.7 Ci). The sources became stuck at a depth of between 8,945 and 9,526 feet. There were numerous attempts to fish the sources out. At one point during a fishing procedure, the hole collapsed and retrieval of the sources was not possible. The sources were abandoned on 5/11/2007 in accordance with requirements. There are three separate cement plugs above the abandoned sources. There is 5,700 feet of drill pipe above the logging tool that will remain and act as a deflection device. A plaque containing the required information will be affixed to the top of the well.

Event Date: 05/07/2007

Date Reported to Agreement State: 05/10/2007

Discovery Date: 05/07/2007

Date Reported to NRC: 07/19/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: UT2400065

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: VERNAL

NRC Program Code: NA

State: UTAH

NRC Region: 4

Zip Code: 84078

Site of Event:

Site Name: VERNAL

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5137

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CYN

IAEA Category: 4

Serial Number: A5286

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

UT070003

08/06/2007

AGREEMENT STATE EVENT REPORT

Narrative:

Pathfinder Energy Services reported the abandonment of a source string containing a Cf-252 source (Frontier 100SNS, serial #FTC-CF-2645) with an activity of 0.4 GBq (10.8 mCi) and a Cs-137 source (AEA Technologies, model CDC.CY6, serial #5088GW) with an activity of 63 GBq (1.7 Ci). The tool became stuck when the wall of the drill hole collapsed and the piping could not be removed. The sources were abandoned at depths of 16,243 and 16,248 feet. A 3,580-foot red dye cement plug was placed above the sources. The piping that remained above the tool, along with the metal bridge plug that was installed, will prevent an inadvertent intrusion of the sources. The two sources were abandoned according to procedure.

Event Date: 07/03/2007

Date Reported to Agreement State: 07/03/2007

Discovery Date: 07/03/2007

Date Reported to NRC: 07/12/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05236

Name: PATHFINDER ENERGY SERVICES INC.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5088GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100SNS

IAEA Category: 4

Serial Number: FTC-CF-2645

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX070014	07/31/2007		AGREEMENT STATE EVENT REPORT
TX070014A	08/20/2007		AGREEMENT STATE EVENT REPORT
TX-I-8422	08/20/2007		AGREEMENT STATE EVENT REPORT
TX070014B	03/25/2008		AGREEMENT STATE EVENT REPORT
TX-I-8422A	03/25/2008		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of a Schlumberger source string containing an Am-Be source (Gammatron model NSR-L, serial #G4001) with an activity of 592 GBq (16 Ci), and a Cs-137 source (Amersham, model CDC.CY3, serial #8115B) with an activity of 63 GBq (1.7 Ci). The tool along with the two sources was abandoned by placing two cement plugs above the tool and a kickoff sidetrack device set above them. A plaque was ordered for the well

Event Date: 05/24/2007

Date Reported to Agreement State: 06/25/2007

Discovery Date: 05/24/2007

Date Reported to NRC: 07/11/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUGAR LAND

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: G4001

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: 8115B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX070013	07/30/2007		AGREEMENT STATE EVENT REPORT
TX070013A	07/30/2007		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of a well logging tool that contained an Am-Be source (Gammatron model NSR-F) with an activity of 592 GBq (16 Ci) and a Cs-137 source (AEA Technologies model CDC.CY3) with an activity of 62.9 GBq (1.7 Ci). The sources were stuck downhole on 6/16/2007. The well is located in Kern County, California, at AERA Energy, Midway Sunset. The licensee engaged in fishing operations to try to retrieve the sources, but was unsuccessful. They will abandon the sources in compliance with the terms and conditions of their license, and in compliance with all requirements of the Division of Oil, Gas, and Geothermal Resources.

Event Date: 06/16/2007

Date Reported to Agreement State: 06/19/2007

Discovery Date: 06/16/2007

Date Reported to NRC: 06/20/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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CA-XCA1122	07/03/2007		AGREEMENT STATE EVENT REPORT
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LTR071228	01/03/2008		AGREEMENT STATE LETTER
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Narrative:

Baker Hughes reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #731) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #1827). The well is located in federal waters offshore Louisiana at Green Canyon Block 644. The well was operated by BP Exploration and Production, Incorporated. The Am-Be source is located at a measured depth of 13,036 feet (12,884 feet vertical depth) and the Cs-137 source is located at a measured depth of 13,043 feet (12,889 feet vertical depth). The measured depth of the well is 16,255 feet (14,633 feet vertical depth).

Event Date: 06/02/2007

Date Reported to Agreement State:

Discovery Date: 06/02/2007

Date Reported to NRC: 06/14/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GREEN CANYON BLOCK 644

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 1827

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 731

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071650343	06/25/2007		LICENSEE REPORT
ML081000628	04/14/2008		REGION REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources. The sources included a 703 GBq (19 Ci) Am-Be source (Amersham model AMN.CY19, serial #0359NN), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #12052B), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #B4-075 and B4-157). The well is located in the Green Canyon Block 683 and was operated by Kerr McGee Corporation. The Am-Be source is located at a measured depth of 27,112 feet (25,068 feet vertical depth) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 27,129 feet (25,080 feet vertical depth). The measured depth of the top of the cement abandonment plug is 24,140 feet (23,002 feet vertical depth). The total measured depth of the well is 27,204 feet (25,134 feet vertical depth).

Event Date: 07/18/2006

Date Reported to Agreement State:

Discovery Date: 07/18/2006

Date Reported to NRC: 07/20/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GREEN CANYON BLOCK 683

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 19 Ci (703 GBq)

Model Number: AMN.CY19

IAEA Category: 2

Serial Number: 0359NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 12052B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	B4-075		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	B4-157		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML062230256	06/04/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (AEA Technology model CDC.CY4, serial #PPN699) and a 92.5 GBq (2.5 Ci) Cs-137 source (Gammatron model AN-HP, serial #PP10220B). The well is located in the Grand Isle Block 47, Gorilla II rig, offshore in federal waters. The well is operated by Apache Corporation. The sources are stuck in a 15,964 foot deep well in 91 feet of water in the Gulf of Mexico. The Am-Be source is stuck at a measured depth of 15,392 feet and the Cs-137 source is stuck at a measured depth of 15,403 feet. The well logging tool became stuck on 10/30/2006 and the licensee decided to abandon the tool on 11/2/2006. The operator will use 400 feet of cement for a plug with several hundred feet of steel drill-string as the deflection device.

Event Date: 10/30/2006

Date Reported to Agreement State:

Discovery Date: 10/30/2006

Date Reported to NRC: 11/02/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GRAND ISLE BLOCK 47

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 5 Ci (185 GBq)

Model Number: CDC.CY4

IAEA Category: 3

Serial Number: PPN699

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 2.5 Ci (92.5 GBq)

Model Number: AN-HP

IAEA Category: 4

Serial Number: PP10220B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML063070211	06/04/2007		LICENSEE REPORT
ML072110141	08/07/2007		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #PP25554B) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #PP06947B). The well is located in federal waters offshore Louisiana at East Cameron Block 263 and was operated by Peregrine Oil and Gas. The Am-Be source is located at a measured depth of 8,749 feet (8,110 feet vertical depth) and the Cs-137 source is located at a measured depth of 8,761 feet (8,120 feet vertical depth). The top of the cement abandonment plug is at a measured depth of 8,000 feet (7,527 feet vertical depth). The measured depth of the well is 8,906 feet (8,232 feet vertical depth).

Event Date: 06/19/2006

Date Reported to Agreement State:

Discovery Date: 06/19/2006

Date Reported to NRC: 07/18/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EAST CAMERON BLOCK 263

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: PP25554B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP06947B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML062690058	06/04/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 148 GBq (4 Ci) Am-Be source and a 74 GBq (2 Ci) Cs-137 source. The well is located in federal waters offshore Louisiana at the Galveston Block. The Am-Be source is located at a depth of 9,247 feet and the Cs-137 source is located at a depth of 9,256 feet. The licensee plans to pump 150 feet of cement to 9,096. The total depth of the well is 10,767 feet.

Event Date: 08/26/2006

Date Reported to Agreement State:

Discovery Date: 08/26/2006

Date Reported to NRC: 08/28/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GALVESTON BLOCK

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: N

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 4 Ci (148 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML062420416	06/04/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment an irretrievable well logging source. The well is located in federal waters offshore Louisiana at Garden BanksBlock 223 and was operated by Walter Oil and Gas Corporation. The 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2480) was stuck at a measured depth of 9,930 feet. The measured depth to the top of the cement abandonment plug is 7,394 feet. The measured depth of the well is 9,985 feet.

Event Date: 07/02/2006

Date Reported to Agreement State:

Discovery Date: 07/02/2006

Date Reported to NRC: 07/04/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARDEN BANKS BLOCK 223

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2480

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML062280073	06/04/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported that a well logging tool containing a Cs-137 source with an activity of 59.2 GBq (1.6 Ci) and an Am-Be source had become stuck downhole. The well is located in Campbell County, Wyoming. The well is owned by Petrogulf. The licensee engaged in fishing operations on 6/25/2006 to try to retrieve the sources. The well logging tool broke in half and they were able to recover the Am-Be source. The Cs-137 source was abandoned at approximately 10,680 feet. Petrogulf has a pay zone in the range of 10,532 and 10,552 feet and they plan to work around that. They plan to run casing from 10,679 to 10,560 feet and fill the casing with 120 feet of cement. They will also weld a hardened steel polished rod in the casing at about 10,560 feet and a similar deflection device in a crowsfoot configuration before the pay zone. The licensee received permission to abandon the source.

Event Date: 06/25/2006

Date Reported to Agreement State:

Discovery Date: 06/25/2006

Date Reported to NRC: 07/07/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: CAMPBELL COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: N

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.6 Ci (59.2 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML061920418	06/04/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #N587) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #PP18195B). The well is located in federal waters offshore Louisiana at South Timbalier 26 and was operated by Energy Partner's. The Am-Be source is located at a measured depth of 11,994 feet (10,610 feet vertical depth) and the Cs-137 source is located at a measured depth of 12,005 feet (10,615 feet vertical depth). The licensee plans to pump 500 feet of cement on top of the fish. The measured depth of the well is 12,060 feet (10,641 feet vertical depth).

Event Date: 02/06/2007

Date Reported to Agreement State:

Discovery Date: 02/06/2007

Date Reported to NRC: 02/09/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH TIMBALIER 26

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: N587

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP18195B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML070400637	06/01/2007		LICENSEE REPORT
ML071440290	06/04/2007		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5021GW) and a 0.4 GBq (10.8 mCi) Cf-252 source (Frontier Technology Corporation model 100S, serial #FTC-CF-2357). The well is located in federal waters offshore Louisiana at West Cameron Block 168 and was operated by Linder Oil Company. The sources became stuck on 8/11/2005 and were approved for abandonment on 8/15/2005. The Cs-137 source is located at a measured depth of 14,307 feet (12,865 feet vertical depth) and the Cf-252 source is located at a measured depth of 14,304 feet (14,304 feet vertical depth). The measured depth of the well is 14,413 feet (12,939 feet vertical depth). The top of the cement abandonment plug is at a measured depth of 10,439 feet (10,163 feet vertical depth).

Event Date: 08/11/2005

Date Reported to Agreement State:

Discovery Date: 08/11/2005

Date Reported to NRC: 08/12/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: WEST CAMERON BLOCK 168

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5021GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CF-252

Manufacturer: FRONTIER TECHNOLOGY

Activity: 0.0108 Ci (10.8 mCi or 399.6 MBq)

Model Number: 100S

IAEA Category: 4

Serial Number: FTC-CF-2357

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML052560583	06/01/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of an irretrievable well logging source. The well is located in federal waters offshore Louisiana at Green Canyon Block 243 and was operated by Nexen Petroleum Offshore USA, Incorporated. The 63 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2384) is located at a depth of 21,087 feet. The depth of the well is 21,160 feet.

Event Date: 02/18/2007

Date Reported to Agreement State:

Discovery Date: 02/18/2007

Date Reported to NRC: 02/18/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 243

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2384

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML070510567	06/01/2007		LICENSEE REPORT
ML071440290	06/04/2007		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-L, serial #4002) and a 63 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2358). The well is located in federal waters offshore Louisiana at Green Canyon Block 902 and was operated by BP Exploration and Production. The Am-Be source is located at a depth of 25,823 feet and the Cs-137 source is located at a depth of 25,844 feet. The depth of the well is 26,061 feet. The top of the cement abandonment plug is at 21,978 feet.

Event Date: 02/19/2007

Date Reported to Agreement State:

Discovery Date: 02/19/2007

Date Reported to NRC: 02/19/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 902

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-L

IAEA Category: 3

Serial Number: 4002

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2358

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML070510604	06/01/2007		LICENSEE REPORT
ML071440290	06/04/2007		REGION REPORT

Narrative:

The licensee reported the abandonment of a Cs-137 source (Amersham model CDC.CYN, serial #2394GW) with an activity of 74 GBq (2 Ci) and a Cs-137 source (Gammatron model ECS, serial #E-557) with an activity of 51.8 kBq (1.4 µCi). The well logging tool became stuck and, during fishing operations, the tool string separated and only the Am-Be source was recovered. Recovery efforts were ceased due to the risk of damaging the Cs-137 sources still downhole. Approximately 200 feet of red-dyed cement was spotted on the plug and a deflection device was installed above the cement. A permanent plaque was installed at the well head.

Event Date: 11/15/2006

Date Reported to Agreement State: 11/17/2006

Discovery Date: 11/15/2006

Date Reported to NRC: 05/29/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CYN

IAEA Category: 4

Serial Number: 2394GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 0.0000014 Ci (1.4 µCi or 51.8 kBq)

Model Number: ECS

IAEA Category: 5

Serial Number: E-557

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX070011	06/01/2007		AGREEMENT STATE EVENT REPORT
TX-I-8372	06/01/2007		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #G5145) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A1845). The well is located in the Lorado field, Logan County, West Virginia, and is operated by Equitable Production Company. The Am-Be source is located at a measured depth of 5,993 feet and the Cs-137 source is located at a measured depth of 6,009 feet. Fishing attempts were unsuccessful. There was 239 feet of red-dyed cement poured on top of the tool string from 5,969 to 5,730 feet. A mechanical deflection device was placed at the top of the cement plug and a permanent identification plaque was placed at the wellhead.

Event Date: 12/19/2006

Date Reported to Agreement State:

Discovery Date: 12/19/2006

Date Reported to NRC: 12/21/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: LOGAN COUNTY

State: WEST VIRGINIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5145

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A1845

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML070220205	05/31/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (Amersham model CDC.CY4, serial #PPN730) and a 92.5 GBq (2.5 Ci) Cs-137 source (Gammatron model AN-HP, serial #PP27797B). The well is located in federal waters offshore Louisiana at Mustang Island Block 308. The Am-Be source is located at a measured depth of 8,114 feet (7,617 feet vertical depth) and the Cs-137 source is located at a measured depth of 8,123 feet (7,624 feet vertical depth). The measured depth of the well is 8,247 feet (7,718 feet vertical depth).

Event Date: 05/20/2007

Date Reported to Agreement State:

Discovery Date: 05/20/2007

Date Reported to NRC: 05/20/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MUSTANG ISLAND BLOCK 308

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 5 Ci (185 GBq)

Model Number: CDC.CY4

IAEA Category: 3

Serial Number: PPN730

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 2.5 Ci (92.5 GBq)

Model Number: AN-HP

IAEA Category: 4

Serial Number: PP27797B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071410465	05/31/2007		OTHER
ML072110141	08/07/2007		REGION REPORT
LTR070823	08/23/2007		NRC LETTER

Narrative:

The licensee reported that a well logging source (AEA Technologies, model CDC.CY4, serial #31760B) containing Cs-137 with an activity of 74 GBq (2 Ci) was stuck in a non-producing well at a depth of 2,862 feet. The well is located near Cheyenne Wells, Colorado. All attempts to retrieve the source failed. The source was cemented in place and a deflection device was placed at the top of the plug. The well casing will be welded closed near the surface and a warning plaque added. The source is located in a salt bed and is not in contact with potable water. No further actions are anticipated.

Event Date: 02/27/2007
Discovery Date: 02/27/2007

Date Reported to Agreement State: 02/27/2007
Date Reported to NRC: 05/09/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: CO-838-01
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: ROCKY MOUNTAIN PHOENIX SURVEYS, INC.
City: BRIGHTON
State: COLORADO
Zip Code: 80601

Site of Event:

Site Name: CHEYENNE WELLS
State: COLORADO

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS
OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS
IAEA Aggregate Category: 4

Corrective Actions Information:

LAS
SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1	Radionuclide:	CS-137
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Activity:	2 Ci (74 GBq)
Manufacturer:	AEA TECHNOLOGIES	IAEA Category:	4
Model Number:	CDC.CY4		
Serial Number:	31760B		

Device/Associated Equipment:

LAS

Device Number:	1	Model Number:	NR
Device Name:	WELL LOGGING TOOL	Serial Number:	NR
Manufacturer:	NR		

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CO07-I07-02	05/21/2007		AGREEMENT STATE EVENT REPORT
CO07-I07-02A	08/09/2007		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment an irretrievable well logging source. The well is located in federal waters offshore Louisiana at Eugene Island Block 333 and was operated by Devon Energy Production Company. The 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2578) was stuck at a measured depth of 9,976 feet. The measured depth to the top of the cement abandonment plug is 7,800 feet.

Event Date: 04/27/2007

Date Reported to Agreement State:

Discovery Date: 04/27/2007

Date Reported to NRC: 04/27/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EUGENE ISLAND BLOCK 333

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2578

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071210021	05/07/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment an irretrievable well logging source. The well is located in federal waters offshore Louisiana at Ewing Bank Block 878 and was operated by Walter Oil and Gas. The 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2468) was stuck at a measured depth of 9,340 feet. The measured depth to the top of the cement abandonment plug is 8,313 feet.

Event Date: 04/20/2007

Date Reported to Agreement State:

Discovery Date: 04/20/2007

Date Reported to NRC: 04/20/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EWING BANK BLOCK 878

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2468

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071160408	05/04/2007		LICENSEE REPORT
ML072110141	08/07/2007		REGION REPORT

Narrative:

The licensee reported the abandonment an irretrievable well logging source (Amersham model CDC.CY13, serial #28699B). The well is located in federal waters offshore Louisiana at Mississippi Canyon Block 762. The 74 GBq (2 Ci) Cs-137 source was stuck on 4/13/2007 at a measured depth of 22,541 feet. The measured depth to the top of the cement abandonment plug is 19,162 feet. The measured depth of the well is 22,870 feet.

Event Date: 04/13/2007

Date Reported to Agreement State:

Discovery Date: 04/13/2007

Date Reported to NRC: 04/17/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: MISSISSIPPI CANYON 762

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 28699B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071140338	05/02/2007		OTHER
ML072110141	08/07/2007		REGION REPORT
LTR070823	08/23/2007		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 370 GBq (10 Ci) Am-Be source (Gammatron model NSR-M, serial #N316) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY3, serial #A2087). The well is located in federal waters offshore Louisiana at Vermillion Block 335 and was operated by Murphy Exploration and Production. The Am-Be source is located at a measured depth of 15,054 feet and the Cs-137 source is located at a measured depth of 15,057 feet. The measured depth to the top of the cement abandonment plug is 12,000 feet. The measured depth of the well is 15,137 feet.

Event Date: 04/19/2007

Date Reported to Agreement State:

Discovery Date: 04/19/2007

Date Reported to NRC: 04/19/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: VERMILLION BLOCK 335

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: N316

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2087

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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ML071140363	05/02/2007		OTHER
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ML072110141	08/07/2007		REGION REPORT
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Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #25564B) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #24462B). The well is located in federal waters offshore Louisiana at Eugene Island Block 338 and was operated by Chevron USA. The Am-Be source is located at a measured depth of 7,228 feet (5,623 feet vertical depth) and the Cs-137 source is located at a measured depth of 7,235 feet (5,626 feet vertical depth). The measured depth to the top of the cement abandonment plug is 4,574 feet (4,118 feet vertical depth). The measured depth of the well is 7,333 feet (5,677 feet vertical depth).

Event Date: 02/21/2007

Date Reported to Agreement State:

Discovery Date: 02/21/2007

Date Reported to NRC: 03/20/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 338

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 25564B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 24462B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071020211	04/30/2007		LICENSEE REPORT
ML070570111	06/04/2007		LICENSEE REPORT
ML071440290	06/04/2007		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #PP25579B) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #PP27820B). The well is located in federal waters offshore Louisiana at West Cameron Block 311 and was operated by Tarpon Offshore Ventures. The Am-Be source is located at a measured depth of 12,039 feet (8,228 feet vertical depth) and the Cs-137 source is located at a measured depth of 12,049 feet (8,232 feet vertical depth). The measured depth to the top of the cement abandonment plug is 11,391 feet (7,919 feet vertical depth). The measured depth of the well is 12,121 feet (8,267 feet vertical depth).

Event Date: 01/11/2007

Date Reported to Agreement State:

Discovery Date: 01/11/2007

Date Reported to NRC: 02/23/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: WEST CAMERON BLOCK 311

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: PP25579B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP27820B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML071090257	04/30/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #239321B) and a 92.5 GBq (2.5 Ci) Cs-137 source (serial #PP08224B). The well is located in federal waters offshore Louisiana at East Cameron Block 64 and was operated by Stone Energy Corporation. The Am-Be source is located at a measured depth of 10,939 feet (10,022 feet vertical depth) and the Cs-137 source is located at a measured depth of 10,951 feet (10,035 feet vertical depth). The measured depth of the well is 11,035 feet (10,116 feet vertical depth).

Event Date: 04/05/2007

Date Reported to Agreement State:

Discovery Date: 04/05/2007

Date Reported to NRC: 04/06/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EAST CAMERON BLOCK 64

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 239321B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP08224B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML070960415	04/30/2007		LICENSEE REPORT
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported that a well logging tool string was stuck down hole on 3/5/2007 in Iberia Parish, Louisiana. The tool string contained an Am-Be source (AEA Technologies model AMN.CY20, serial #6914B) with an activity of 666 GBq (18 Ci) and a Cs-137 source (AEA Technologies model CDC.CY16, serial #26200B) with an activity of 74 GBq (2 Ci). Four fishing attempts were made from 3/6 to 3/15/2007 without success. The sources are located at a depth of 9,742 feet. A cement retainer was set at 9,478 feet and 261 feet of cement was squeezed below the retainer. A whipstock was set above the cement retainer at 9,470 feet to act as a deflection device.

Event Date: 03/05/2007

Date Reported to Agreement State: 03/17/2007

Discovery Date: 03/05/2007

Date Reported to NRC: 04/11/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: PRECISION ENERGY SERVICES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: IBERIA PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AEA TECHNOLOGIES

Activity: 18 Ci (666 GBq)

Model Number: AMN.CY20

IAEA Category: 2

Serial Number: 6914B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY16

IAEA Category: 4

Serial Number: 26200B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA070009	04/25/2007		AGREEMENT STATE EVENT REPORT
LA070009A	05/16/2007		AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger PTC reported the loss of a shipment containing a pulsed neutron generator (EMR Photoelectric model 762, serial #PNG-AA 1146-01) with a 55.5 GBq (1.5 Ci) H-3 source (serial #5066). The shipment originated in Indonesia, arrived at the Dallas/Fort Worth Airport on 2/3/2007, and cleared U.S. Customs on 2/9/2007. The package was picked up by Yellow Freight on 2/14/2007 and was to be shipped through Nashville, Tennessee, to the licensee's facility in Princeton Junction, New Jersey. Schlumberger was notified on 3/1/2007 that the shipment could not be located. Yellow Freight believes that they disposed of the shipment because they had damaged the freight.

Event Date: 02/14/2007

Date Reported to Agreement State:

Discovery Date: 03/01/2007

Date Reported to NRC: 03/05/2007

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 29-08636-02

Name: SCHLUMBERGER PTC

NRC Docket Number: 03011318

City: PRINCETON JUNCTION

NRC Program Code: 03214

State: NEW JERSEY

NRC Region: 1

Zip Code: 08550

Site of Event:

Site Name: PRINCETON JUNCTION

State: NEW JERSEY

Additional Involved Party:

License Number: NON-LICENSEE

Name: YELLOW FREIGHT

NRC Docket Number: NA

City: NR

NRC Program Code: NA

State: NR

NRC Region: NR

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.5 Ci (55.5 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: 5066

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON

Model Number: 762

Manufacturer: EMR PHOTOELECTRIC

Serial Number: PNG-AA 1146-01

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN43212	03/06/2007		EVENT NOTIFICATION
ML071000543	04/12/2007		REGION REPORT
ML071000543	04/12/2007		LICENSEE REPORT
ML071070261	05/01/2007		NRC LETTER
LTR071114	11/19/2007		AGREEMENT STATE EVENT REPORT
ML082070013	08/06/2008		OTHER

Narrative:

The licensee reported the abandonment of a well logging tool that contained an Am-Be source (Gammatron model NSR-F, serial #G5052) with an activity of 592 GBq (16 Ci) and a Cs-137 source (AEA Technologies model CDC.CY3, serial #A5138) with an activity of 62.9 GBq (1.7 Ci). The source was stuck downhole on 1/25/2007 in Galveston County. The licensee attempted to recover the tool, but was unsuccessful. On 2/2/2007, the licensee officially abandoned the tool. A red cement plug and mechanical deflection device was placed above the abandoned sources.

Event Date: 01/25/2007

Date Reported to Agreement State: 02/02/2007

Discovery Date: 01/25/2007

Date Reported to NRC: 02/19/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GALVESTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5052

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A5138

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR070215	03/01/2007		AGREEMENT STATE LETTER
TX070004	03/01/2007		AGREEMENT STATE EVENT REPORT
TX-I-8388	03/01/2007		AGREEMENT STATE EVENT REPORT

Narrative:

IPS reported the loss of a 26 GBq (703 mCi) Cs-137 well logging source (Gulf Nuclear model CSV, serial #H90) that caused personnel to receive radiation dose in excess of the limit for members of the public. The source dose rate was determined to be 264 R/hr skin dose at one inch. On 2/22/2007 at approximately 0600 CST, the crew unknowingly dropped the source in the motor pool parking lot while loading it into a pig. At approximately 0900 CST, the source was picked up by a mechanic who placed it in his jacket pocket. The mechanic wore the jacket for about four hours. He visited several businesses and later hung the jacket on a bollard in an area where individuals were working. The jacket was later moved to a break room overnight. On 2/23/2007, the mechanic put the jacket back on. On 2/23/2007 at approximately 0600 CST, the well logging crew returned to the facility and discovered that the source was missing when they unpacked their equipment. The source was not discovered missing earlier because it had not been needed in the field. The crew immediately started searching for the source. The mechanic produced the source when he heard it was missing. In total, the mechanic wore the jacket approximately 5.5 hours. The mechanic and a couple of co-workers were taken to a local hospital for examination. No abnormalities were noted. The mechanic was seen by a physician at the Oklahoma University Health Sciences Center (OUHSC), who believed that the mechanic would suffer from radiation burns on his abdomen and possibly on his finger tips. A blood sample was taken and shipped to RPA in London, England, for cytogenetic analysis. Their report cited damage that is slightly above normal background, perhaps indicating an exposure of 10 cGy (rad) average whole body dose. The report included uncertainties due to sampling statistics such that the upper and lower 95% confidence limits are 20 cGy (rad) and zero, respectively. The NRC and the Oklahoma Department of Environmental Quality (DEQ) calculated a dose of between 5 and 10 cSv (rem). It was stated that the only symptom displayed by the mechanic was some gastrointestinal upset, which could have been caused by emotional stress related to the incident. The mechanic denied any radiation burn symptoms. Regarding others who may have received dose in excess of limits due to this event, a co-worker who rode to lunch with the mechanic was identified as being most at-risk. This event was caused by the failure to conduct surveys during transfer of the source and the failure of the source handling tool and pig to positively secure the source. To prevent recurrence, IPS removed similar sources from service pending upgrade of the source handling sticks, modified their procedures, retrained personnel. As of 2/28/2007, this incident had a provisional INES Rating Level of 2.

Event Date: 02/22/2007

Date Reported to Agreement State: 02/23/2007

Discovery Date: 02/23/2007

Date Reported to NRC: 02/23/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OK-31009-01

Name: IPS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77098

Site of Event:

Site Name: OKLAHOMA CITY

State: OKLAHOMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

EXP - OVEREXPOSURE

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EXP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

EXP

IAEA Aggregate Category: 4

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

EXP

NEW EQUIPMENT OBTAINED
PROCEDURE MODIFIED
PERSONNEL RECEIVED ADDITIONAL TRAINING

LAS

NEW EQUIPMENT OBTAINED
PROCEDURE MODIFIED
PERSONNEL RECEIVED ADDITIONAL TRAINING

Exposure Detail:**Person #:** 1

Exposure Dose: 10 rem (100 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Source of Radiation:

EXP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	0.703 Ci (703 mCi or 26.011 GBq)
Model Number:	CSV	IAEA Category:	4
Serial Number:	H90		

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	0.703 Ci (703 mCi or 26.011 GBq)
Model Number:	CSV	IAEA Category:	4
Serial Number:	H90		

Reporting Requirements:

EXP

20.2202(b)(1)(i) - Loss of control of material causing or threatening to cause an individual to receive a total effective dose equivalent exceeding 5 rem (0.05 Sv) in a period of 24 hours.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN43183	02/28/2007		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
PN407001	03/06/2007		PRELIMINARY NOTIFICATION REPORTED FROM AN AGREEMENT STATE
- ML070580495	03/06/2007		Same as PN407001
PN407001A	03/15/2007		PRELIMINARY NOTIFICATION REPORTED FROM AN AGREEMENT STATE
- ML070660565	03/15/2007		Same as PN407001A
ML072700212	10/10/2007		NRC INFORMATION NOTICE
OK070008	11/05/2007		AGREEMENT STATE EVENT REPORT
LTR080304	03/06/2008		NRC LETTER
LTR080306	03/06/2008		NRC LETTER
OK070008A	03/06/2008		AGREEMENT STATE EVENT REPORT
LTR081210	01/12/2009		INES REPORT

Narrative:

The licensee reported the abandonment of a Cs-137 source (AEA Tech, model GSR-Z, serial #A2380) that contained an activity of 62.9 GBq (1.7 Ci). The well logging tool was stuck downhole on 1/7/2007. The well is located on Rabbit Island in Iberia Parish, Louisiana. Attempts were made to retrieve the source through 1/9/2007. The source was abandoned at a depth between 10,937 and 10,247 feet. A cast iron bridge plug was set inside the drill pipe at 9,451 feet. A second plug of Class H cement was spotted in the annulus above the drill pipe from 3,703 to 3,600 feet. The top of the severed drill pipe is at approximately 3,703 feet. About 7,234 feet of heavy weight drill pipe, collars, jars, stabilizers, and other equipment remains in the hole from 10,937 to 3,703 feet and will serve as mechanical deflection. The kick-off point for sidetrack is at 3,600 feet. A well plaque has been ordered and will be placed on the well.

Event Date: 01/07/2007

Date Reported to Agreement State: 01/09/2007

Discovery Date: 01/07/2007

Date Reported to NRC: 02/09/2007

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SHREVEPORT

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 71129

Site of Event:

Site Name: IBERIA PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2380

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA070001	02/15/2007		AGREEMENT STATE EVENT REPORT
LTR070215	02/15/2007		AGREEMENT STATE LETTER

Narrative:

Pathfinder Energy Services (PES) reported that a well logging tool became stuck downhole at a site in Hardin County on 11/20/2006. The tool contained an Am-Be source (Gammatron, model AN-HP, DSN 035) with an activity of 296 GBq (8 Ci) and a Cs-137 source (AEA Technologies, model CDC.CY6, serial #2758GW) with an activity of 55.5 GBq (1.5 Ci). Fishing expeditions began at that time. PSE stated that the fishing company's wash pipe also became stuck. The fishing company attempted to retrieve the wash pipe as well as the stuck source. PSE officially abandoned the site on 12/4/2006. A 300-foot red cement plug was placed above the well logging tool and sources. A deflection device was placed above the plug and an identification plaque will be installed upon receipt.

Event Date:	11/20/2006	Date Reported to Agreement State:	12/04/2006
Discovery Date:	12/04/2006	Date Reported to NRC:	01/04/2007

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L05236	Name:	PATHFINDER ENERGY SERVICES INC.
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77041

Site of Event:

Site Name:	HARDIN COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	8 Ci (296 GBq)
Model Number:	AN-HP	IAEA Category:	3
Serial Number:	DSN 035		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.5 Ci (55.5 GBq)
Model Number:	CDC.CY6	IAEA Category:	4
Serial Number:	2758GW		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR070104	01/16/2007		AGREEMENT STATE LETTER
TX070001	01/16/2007		AGREEMENT STATE EVENT REPORT
TX-I-8377	01/16/2007		AGREEMENT STATE EVENT REPORT
TX070001A	05/03/2007		AGREEMENT STATE EVENT REPORT
TX070001B	05/03/2007		AGREEMENT STATE EVENT REPORT
TX070001C	05/03/2007		AGREEMENT STATE EVENT REPORT
LTR100201	02/05/2010		AGREEMENT STATE LETTER
TX070001D	02/05/2010		AGREEMENT STATE EVENT REPORT
TX-I-8377A	02/05/2010		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a well logging tool containing a Cs-137 source with an activity of 55.5 GBq (1.5 Ci) was irretrievably stuck downhole at a depth of 7,392 feet. The well is located in Los Angeles, California. The tool containing the Am-Be source was retrieved and did not appear to be damaged. The California Department of Health Services is awaiting the results of leak tests. The well is operated by Plains Exploration. The tools were stuck on 12/11/2006 and fishing operation commenced for three days. On 12/14/2006, the licensee determined that the Cs-137 source was irretrievable. The plan to abandon the source was approved by the California Division of Oil, Gas, and Geothermal Resources.

Event Date:	12/11/2006	Date Reported to Agreement State:	12/14/2006
Discovery Date:	12/11/2006	Date Reported to NRC:	12/15/2006

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CA-0782-15	Name:	HALLIBURTON ENERGY SERVICES
NRC Docket Number:	NA	City:	BAKERSFIELD
NRC Program Code:	NA	State:	CALIFORNIA
NRC Region:	4	Zip Code:	93307

Site of Event:

Site Name:	LOS ANGELES	State:	CALIFORNIA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.5 Ci (55.5 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1036	01/04/2007		AGREEMENT STATE EVENT REPORT
LTR061219	01/04/2007		AGREEMENT STATE LETTER
LTR070626	06/27/2007		AGREEMENT STATE LETTER

Narrative:

The licensee reported the loss and recovery of a well logging tool (Schlumberger model 7158, serial #5710) that contained an H-3 source with an activity of 55.5 GBq (1.5 Ci). It appeared that the tool was lost or fell from the truck along a 50-mile portion of County Road 3169 in Zapata County, Texas. Licensee personnel searched for the tool and recovered it on 11/16/2006. The source was intact and the tool was transported to the licensee's facility. Corrective actions taken by the licensee included generating a new procedure, providing additional training to personnel, and obtaining new equipment.

Event Date: 11/15/2006

Date Reported to Agreement State: 11/16/2006

Discovery Date: 11/15/2006

Date Reported to NRC: 11/16/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: ZAPATA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

PERSONNEL RECEIVED ADDITIONAL TRAINING

NEW PROCEDURE WRITTEN

NEW EQUIPMENT OBTAINED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.5 Ci (55.5 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON

Model Number: 7158

Manufacturer: SCHLUMBERGER

Serial Number: 5710

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND
TRILATERAL TO MEXICO

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42997	11/20/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR061117	11/20/2006		AGREEMENT STATE LETTER
TX-I-8373	11/30/2006		AGREEMENT STATE EVENT REPORT
TX060046	04/12/2007		AGREEMENT STATE EVENT REPORT
TX060046A	04/12/2007		AGREEMENT STATE EVENT REPORT
TX-I-8373A	04/12/2007		AGREEMENT STATE EVENT REPORT
TX-I-8373B	04/12/2007		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a well logging tool containing Cs-137 source (AEA Technologies, model CDC.CY4, serial #06926B) with an activity of 74 GBq (2 Ci) and an Am-Be source had become stuck downhole on 9/20/2006. The well is located in Desoto Parish, Louisiana. The licensee engaged in fishing operations to try to retrieve the sources. The well logging tool broke, but they were able to recover the Am-Be source. The Cs-137 source was abandoned at 3,064 feet. A red-dyed cement plug was set from 3,060 to 2,860 feet using an open ended drill pipe. Production casing was cemented in place down to 2,850 feet and 41 feet of cement filled the float shoe joint and float collar. A deflection device was dropped onto the float collar and 20 feet of red-dyed cement was placed on deflection device on 11/1/2006. An identification plaque will be placed at the wellhead.

Event Date: 09/20/2006

Date Reported to Agreement State: 11/03/2006

Discovery Date: 09/20/2006

Date Reported to NRC: 11/13/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: PRECISION ENERGY SERVICES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: DESOTO PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 06926B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42987	11/16/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LA060020	01/17/2007		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a well logging tool containing an Am-Be source with an activity of 592 GBq (16 Ci) and a Cs-137 source with an activity of 62.9 GBq (1.7 Ci) had become stuck downhole. The well is located in Kern County, California, at Occidental in the Elk Hills Region. The licensee engaged in fishing operations to try to retrieve the sources. On 10/25/2006, the licensee stated that the tool broke and they were able to recover the Am-Be source. The Cs-137 source was still stuck and they intend to abandon it. Neither source has been compromised. The licensee will abandon the source in compliance with the terms and conditions of their license, and in compliance with all requirements of the Division of Oil, Gas, and Geothermal Resources.

Event Date:	10/24/2006	Date Reported to Agreement State:	10/25/2006
Discovery Date:	10/24/2006	Date Reported to NRC:	10/25/2006

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CA-0144-15	Name:	SCHLUMBERGER TECHNOLOGY CORP.
NRC Docket Number:	NA	City:	BAKERSFIELD
NRC Program Code:	NA	State:	CALIFORNIA
NRC Region:	4	Zip Code:	93308

Site of Event:

Site Name:	KERN COUNTY	State:	CALIFORNIA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.7 Ci (62.9 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA1014	11/14/2006		AGREEMENT STATE EVENT REPORT
LTR070626	06/27/2007		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of two well logging sources downhole. One source (Gammatron, model NSR-L, serial #G4040) contained Am-Be with an activity of 592 GBq (16 Ci) and the other source (AEA Technology, model GSR-Z, serial #A2371) contained Cs-137 with an activity of 63 GBq (1.7 Ci). The well is located in the East Baton Rouge Parish. Many attempts were made to retrieve the sources from 9/7 to 9/21/2006. The Am-Be source was abandoned at a depth of 18,855 feet and the Cs-137 source was abandoned at a depth of 18,887 feet. The sources were covered with Premium cement and a cement retainer was set at a depth of 18,246 feet. A whipstock was placed on top of the cement retainer and an abandonment plaque will be placed on the wellhead.

Event Date:	09/07/2006	Date Reported to Agreement State:	10/02/2006
Discovery Date:	09/07/2006	Date Reported to NRC:	10/13/2006

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	LA-2783-L01	Name:	SCHLUMBERGER TECHNOLOGY CORP.
NRC Docket Number:	NA	City:	SHREVEPORT
NRC Program Code:	NA	State:	LOUISIANA
NRC Region:	4	Zip Code:	71129

Site of Event:

Site Name:	EAST BATON ROUGE PARISH	State:	LOUISIANA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	NSR-L	IAEA Category:	3
Serial Number:	G4040		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	GSR-Z	IAEA Category:	4
Serial Number:	A2371		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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EN42905	10/18/2006		
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EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

LA060019	01/17/2007		
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AGREEMENT STATE EVENT REPORT

Narrative:

Schlumberger Technology reported that a Cs-137 well logging source (AEA Technologies model CDC.CY3, serial #A1925) was damaged down hole. The well is located in Kern County, California, at Chevron USA, in the Midway-Sunset Field. Schlumberger stated that a well logging tool with two sources had become stuck down hole on 10/4/2006. The two sources included an Am-Be source with an activity of 592 GBq (16 Ci) and a Cs-137 source with an activity of 63 GBq (1.7 Ci). Fishing attempts were successful in recovering the Am-Be source. During subsequent attempts to recover the Cs-137 source, Schlumberger personnel monitoring the mud returns noticed a substantial increase on their radiation survey instrument. Readings went from 4 µSv/hour to 70 µSv/hour (0.4 mrem/hour to 7 mrem/hour). That increase indicated a potentially ruptured source and all operations and circulation were immediately stopped. Schlumberger sent additional personnel to the site to conduct further radiation surveys and determine their future course of action. The source was indeed ruptured. They isolated the area and brought in a health physics consultant (Nuclear Source and Services) to assess potential exposures and develop a plan for decontamination of equipment, packaging and disposal of contaminated well mud, and development of a decontamination plan for the well area. The plan was approved by the State of California. Decontamination efforts continued through 2007. A permanent surface marker, "This well contains a breached Cs-137 source, no re-entry of this well shall be allowed" was placed over the well. The source was abandoned downhole and an environmental surveillance program was implemented. There were no significant personnel exposures related to the incident.

Event Date: 10/04/2006

Date Reported to Agreement State: 10/06/2006

Discovery Date: 10/04/2006

Date Reported to NRC: 10/08/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LAS - LOST/ABANDONED/STOLEN

LKS - LEAKING SOURCE

RLM - RADIOACTIVE MATERIAL REL.

Event Cause:

EQP

EQUIPMENT FAILURE / MECHANICAL IMPACT

Old Cause: MECHANICAL IMPACT DAMAGING EQUIPMENT

LAS

EQUIPMENT FAILURE / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

LKS

EQUIPMENT FAILURE / MECHANICAL IMPACT

Old Cause: MECHANICAL IMPACT DAMAGING EQUIPMENT

RLM

EQUIPMENT FAILURE / MECHANICAL IMPACT

Old Cause: MECHANICAL IMPACT DAMAGING EQUIPMENT

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

LAS

IAEA Aggregate Category: 4

LKS

IAEA Aggregate Category: 4

RLM

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

SOURCE ABANDONED ACCORDING TO PROCEDURE

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

LKS

SOURCE ABANDONED ACCORDING TO PROCEDURE

RLM

SOURCE ABANDONED ACCORDING TO PROCEDURE

Release of Material or Contamination Information:

Type: SURFACE
Activity: NR
Radionuclide: CS-137
Effect:

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A1925		

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A1925		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A1925	Leak Test Result:	NR

RLM

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AEA TECHNOLOGIES	Activity:	1.7 Ci (62.9 GBq)
Model Number:	CDC.CY3	IAEA Category:	4
Serial Number:	A1925		

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

LKS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

RLM

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

EQP

30.50(b)(2) - Equipment is disabled or fails to function as designed.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

39.77(d) - Irretrievable well logging source.

LKS

39.77(a) - Ruptured well logging sealed source.

RLM

30.50(b)(1) - Unplanned contamination event.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

References:**Reference Number: Entry Date: Retraction Date: Type of Report:**

CA-XCA992 10/11/2006 AGREEMENT STATE EVENT REPORT

EN42891 10/11/2006 EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

LTR070126 01/30/2007 AGREEMENT STATE LETTER

LTR080219 02/20/2008 AGREEMENT STATE LETTER

LTR090324 03/31/2009 AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of a Schlumberger source string containing an Am-Be source (Monsanto Research Company, model NSR-F, serial #A2232) with an activity of 592 GBq (16 Ci), and a Cs-137 source (Amersham, model CDC.CY3, serial #A1800) with an activity of 63 GBq (1.7 Ci). While the licensee was logging, the cable broke at 8,900 feet down hole. Several attempts were made over the next few days to recover the tool. The tool was abandoned on 12/5/2005. The licensee placed 375 feet of red-dyed cement from 7,813 to 8,188 feet. A second plug was installed at 7,333 to 7,779 feet. A kick off was installed at 7,427 feet. A plaque was placed on the well head.

Event Date: 11/27/2005

Date Reported to Agreement State: 12/16/2005

Discovery Date: 11/27/2005

Date Reported to NRC: 09/22/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: INGHAM COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2232

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A1800

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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TX060038	10/09/2006		AGREEMENT STATE EVENT REPORT
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TX-I-8283	10/09/2006		AGREEMENT STATE EVENT REPORT
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Narrative:

The licensee reported the abandonment of a Schlumberger source string containing an Am-Be source (Monsanto Research Company, model NSR-F, serial #A2442) with an activity of 592 GBq (16 Ci), and a Cs-137 source (Amersham, model CDC.CY3, serial #A2029) with an activity of 63 GBq (1.7 Ci). The licensee attempted to fish for the source string, but was unsuccessful. An inspection of the well site was conducted by the Texas Department of State Health Services. Radiation surveys of the area noted no contamination or radiation levels above background. The well was plugged with several cement plugs and a wipstop to prevent damage to the tool string and sources.

Event Date: 08/14/2006

Date Reported to Agreement State: 09/08/2006

Discovery Date: 08/14/2006

Date Reported to NRC: 09/22/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUGAR LAND

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: MONSANTO

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A2442

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2029

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX060036	10/09/2006		AGREEMENT STATE EVENT REPORT
TX-I-8361	10/09/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of a source string (Halliburton, model N1L24, serial #LF90109669N1L24) containing two Am-Be sources (Amersham, model AMN.CY17, serial #8539NK and 8599NK), each with an activity of 148 GBq (4 Ci), and a Cs-137 source (Amersham, model CDC.CY13, serial #22848B) with an activity of 74 GBq (2 Ci). The licensee attempted to fish for the source string for five days, but was unsuccessful. The well is located in Roberts County, Texas. The sources are located at a measured depth of 9,704 feet. The Texas Rail Road Commission approved production in the well without a plug above the source string. The well operator will install the surface plaque when it becomes available. The well operator will notify the Texas Rail Road Commission prior to running any liner, sidetracking the well, or permanently abandoning the well. An inspection of the well site was conducted by the Texas Department of State Health Services on 9/27/2006. Radiation surveys of the area noted no contamination or radiation levels above background.

Event Date: 08/20/2006

Date Reported to Agreement State: 08/24/2006

Discovery Date: 08/20/2006

Date Reported to NRC: 10/03/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113-062

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: ROBERTS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: CDC.CY17

IAEA Category: 3

Serial Number: 8539NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8599NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	22848B		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	N1L24
Manufacturer:	HALLIBURTON	Serial Number:	LF90109669N1L24

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX060035	10/09/2006		AGREEMENT STATE EVENT REPORT
TX-I-8358	10/09/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported abandoning an Am-Be source with an activity of 592 GBq (16 Ci) and a Cs-137 source with an activity of 62.9 GBq (1.7 Ci) downhole. The well logging tool became stuck and could not be retrieved. The well is located in Kern County, California, in the North Midway Sunset Field. The well is 1,100 feet deep and the sources became stuck at approximately 1,020 feet. The sides of the well above the logging tool were breaking down and rock slid into the well. There were no indications that either source has ruptured or was otherwise leaking. The licensee filled the bottom 200 feet with red-dyed cement, placed two drill bits at the top of the cement to prevent inadvertent drilling, and then placed addition cement up to 565 feet from the bottom.

Event Date: 08/18/2006

Date Reported to Agreement State: 08/18/2006

Discovery Date: 08/18/2006

Date Reported to NRC: 08/18/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: KERN COUNTY

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA974	09/19/2006		AGREEMENT STATE EVENT REPORT
LTR070221	02/26/2007		AGREEMENT STATE LETTER

Narrative:

The licensee reported that a logging tool was stuck in a well located in Jones County, Mississippi. The logging tool contained a Cs-137 source (serial #GSR-J-5031) with an activity of 62.9 GBq (1.7 Ci) and an Am-Be source (serial #NSR-F-2316) with an activity of 592 GBq (16 Ci). The tool was stuck below 17,660 feet. The operating company fished for the tool string, but was unsuccessful and the decision was made to abandon the string. The licensee surveyed drilling mud during fishing operations and did not detect any radiation readings out of normal. The licensee stated that the tool will be cemented in hole and a cement plug will be set at 17,100 feet. Approximately 300 feet of cement was used on top of 10 bars of 0.75 inch by 10 foot joints of solid steel rods with the top at 16,782 feet.

Event Date: 08/08/2006

Date Reported to Agreement State: 08/13/2006

Discovery Date: 08/08/2006

Date Reported to NRC: 08/21/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: ASAS

License Number: MS-463-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: JONES COUNTY

State: MISSISSIPPI

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: N

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NSR-F-2316

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: GSR-J-5031

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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EN42791	08/24/2006		
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			EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
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MS06009	08/24/2006		
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			AGREEMENT STATE EVENT REPORT
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Narrative:

The licensee reported the abandonment of four irretrievable well logging sources, including a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial # 2584NM), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2920GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #WW-945 and WW-953). The well is located at South March Island Block 288 and is operated by Chevron. The sources became stuck on 6/15/2006 and were declared irretrievable on 6/17/2006. The Am-Be source is located at a measured depth of 15,762 feet (vertical depth of 14,319 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 15,752 feet (vertical depth of 14,328 feet). The total measured depth of the well is 15,827 feet (vertical depth of 14,387 feet). The measured depth of the cement abandonment plug is from 14,253 to 15,362 feet. A warning plaque was ordered for mounting on the wellhead.

Event Date: 06/15/2006

Date Reported to Agreement State:

Discovery Date: 06/15/2006

Date Reported to NRC: 06/17/2006

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH MARSH ISLAND 288

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 2584NM

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2920GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	WW-945		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	WW-953		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML061940401	08/01/2006		LICENSEE REPORT
ML062990226	11/03/2006		REGION REPORT
ML061780273	06/04/2007		LICENSEE REPORT

Narrative:

The licensee reported abandoning two sources during well logging operations. An Am-Be source (Gammatron, model AN-HP, serial #DNS007) containing an activity of 296 GBq (8 Ci) and a Cs-137 source (AEA Technologies, model CDC.CY6, serial #3010GW) containing an activity of 55.5 GBq (1.5 Ci) were abandoned. Repeated attempts to free the drill string were unsuccessful. A 500-foot plug of red cement was placed above the sources. In addition, a 60-foot heavy weight drill pipe was placed above the sources to act as a diversion device. A well plaque was ordered to place on the well head.

Event Date: 06/28/2006

Date Reported to Agreement State: 06/28/2006

Discovery Date: 06/28/2006

Date Reported to NRC: 07/14/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05236

Name: PATHFINDER ENERGY SERVICES INC.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-007

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 3010GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX060030	07/27/2006		AGREEMENT STATE EVENT REPORT
TX-I-8351	07/27/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that one of their logging tools was stuck in a well at Midway Dome, Lamar County, Mississippi. The logging tool contained a Cs-137 source (serial #A1957) with an activity of 62.9 GBq (1.7 Ci) and an Am-Be source with an activity of 592.0 GBq (16 Ci). The tool was stuck below 12,000 feet. During fishing operations, the logging tool was pushed to a depth of 14,854 feet. The fishing operation was successful in retrieving the tool string that contained the Am-Be source, but the density tool skid containing the Cs-137 source was not retrieved. The licensee cemented the tool skid in the hole with 160 feet of cement and placed a whip stock deflection device at the top of the cement. A plaque will be placed on the well bore signifying the presence of the abandoned source. The licensee performed radiation surveys of the recovered source and tool string and did not observe any readings above normal. Leak tests were also performed of the Am-Be source and showed no evidence of leakage.

Event Date: 05/25/2006

Date Reported to Agreement State: 05/27/2006

Discovery Date: 05/25/2006

Date Reported to NRC: 06/15/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: MS-463-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: LAMAR COUNTY

State: MISSISSIPPI

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: A1957

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42646	06/20/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
MS06007	07/11/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of a drill string that contained an Am-Be source (Gammatron, model AN-HP, serial #DNS 013) with an activity of 296 GBq (8 Ci) and a Cs-137 source (Amersham, model CDC.CY6, serial #5080GW) with an activity of 55.5 GBq (1.5 Ci). The drill string became stuck on 5/17/2006. The hole had packed off around the drill string, not allowing circulation, up and down movement, or rotation of the drill pipe. All reasonable effort was used to free the drill string. The sources were abandoned on 5/22/2006. A 370 foot cement plug was set above the sources. A total of 22 joints of HWDP (675 feet) were left on top of the sources to act as a mechanical deflection device to prevent inadvertent intrusion on the sources. A sidetrack well is planned to be drilled to the original depth of 10,265 feet (TVD).

Event Date: 05/17/2006

Date Reported to Agreement State: 05/22/2006

Discovery Date: 05/17/2006

Date Reported to NRC: 06/07/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-9089-L01

Name: PATHFINDER ENERGY SERVICES

NRC Docket Number: NA

City: LAFAYETTE

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70505

Site of Event:

Site Name: LAFAYETTE

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-013

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5080GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

EN42623 06/12/2006

EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

LA060007 08/31/2006

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a radioactive source was abandoned downhole after numerous retrieval attempts. The Amersham 55.5 GBq (1.5 Ci) Cs-137 source (model CDC.CY6, serial #2554GW) was abandoned. All other tools and sources were retrieved through fishing procedures. The abandonment was achieved by pumping 50 sacks of 16.2 silica flour red-dyed cement with a 1.42 yield downhole. The source was abandoned at a depth of 10,220 feet with a plug back to a depth of 10,055 feet. A drill bit was placed on top of the red cement as a deflector and signage was posted.

Event Date: 03/27/2006

Date Reported to Agreement State: 05/08/2006

Discovery Date: 03/31/2006

Date Reported to NRC: 05/11/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113-062

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2554GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX060021	05/18/2006		AGREEMENT STATE EVENT REPORT
TX-I-8333	05/18/2006		AGREEMENT STATE EVENT REPORT
TX060021A	05/24/2006		AGREEMENT STATE EVENT REPORT
TX-I-8333A	05/24/2006		AGREEMENT STATE EVENT REPORT
TX-I-8333B	05/24/2006		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Atlas reported finding an ammo box on the side of the road in the Midland/Odessa, Texas, area. The box contained 10 empty pigs and two sealed pigs. One of the sealed pigs was labeled Ir-192 and contained 3.26 GBq (88 mCi), while the other was labeled Sc-46 and contained 0.44 GBq (12 mCi). Initial radiation survey results obtained by the licensee's RSO and a California Department of Health Services inspector revealed 50 mR/hour near the container surface and 2 mR/hour at one meter. The ammo box had Yellow III labeling and the sources were thought to be used for tracer studies. It was determined that the sources belonged to the licensee. The licensee had traveled to New Mexico and upon arriving discovered that the tailgate was down and the sources gone. The licensee was instructed not to take custody of the ammo box until the Texas Department of State Health Services inspector cleared it for release. The inspector reached the Baker Atlas facility at 1500 CDT. Subsequent survey results revealed 0.8 mSv/hour (80 mrem/hour) on contact with the top of the box and 30 μ Sv/hour (3 mrem/hour) at one meter. There was no apparent spread of radioactive material. Corrective actions taken by the licensee included additional responsibilities for the RSO. The RSO will monitor the packaging, loading, and securing of radioactive material by all employees, will review transportation labeling, and conduct a random check on all radioactive material transport containers for compliance.

Event Date: 05/11/2006

Date Reported to Agreement State: 05/11/2006

Discovery Date: 05/11/2006

Date Reported to NRC: 05/11/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05375

Name: TRACER-TECH SERVICES

NRC Docket Number: NA

City: MIDLAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 79711

Site of Event:

Site Name: MIDLAND

State: TEXAS

Additional Involved Party:

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: MIDLAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: FAILURE TO PROPERLY SECURE PACKAGE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: IR-192

Manufacturer: TRACER LABS

Activity: 0.088 Ci (88 mCi or 3.256 GBq)

Model Number: NA

IAEA Category: 4

Serial Number: NA

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	SC-46
Manufacturer:	TRACER LABS	Activity:	0.012 Ci (12 mCi or 444 MBq)
Model Number:	NA	IAEA Category:	NA
Serial Number:	NA		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	CONTAINER, SHIPPING	Model Number:	NA
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42568	05/16/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8335	05/16/2006		AGREEMENT STATE EVENT REPORT
LTR060914	10/03/2006		AGREEMENT STATE LETTER
TX-I-8335A	10/03/2006		AGREEMENT STATE EVENT REPORT

Narrative:

Log-Tech, Incorporated, reported the abandonment of an irretrievable well logging source (Bluestem serial #MRC 415) that contained Am-Be with an activity of 111 GBq (3 Ci). The source became stuck during logging operations at a well in Comanche County, Kansas, at approximately 6,150 feet. The source was initially stuck on 3/1/2006 and abandonment procedures commenced on 3/27/2006. Source recovery attempts were made for approximately three weeks, but were unsuccessful. Well abandonment was complete on 3/28/2006, including plaque placement.

Event Date: 03/01/2006

Date Reported to Agreement State: 03/14/2006

Discovery Date: 03/01/2006

Date Reported to NRC: 04/03/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: KS-27-B565-01

Name: LOG-TECH INC.

NRC Docket Number: NA

City: HAYS

NRC Program Code: NA

State: KANSAS

NRC Region: 4

Zip Code: 67601

Site of Event:

Site Name: COMMANCHE COUNTY

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: BLUESTEM

Activity: 3 Ci (111 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: MRC 415

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
KS060004	04/12/2006		AGREEMENT STATE EVENT REPORT
KS060004A	06/19/2008		AGREEMENT STATE EVENT REPORT

Narrative:

High Bluff Operating reported that the licensee lost a logging tool downhole. The logging cable broke and the tool dropped to a depth of 5,856 feet. The tool was fished from the hole, but the density pad, which contained a Cs-137 source (Gulf Nuclear, model CSV, serial #K98) with an activity of 74 GBq (2 Ci), broke off the tool and stayed in the hole. The licensee poured 146 feet of red-dyed cement on top of the density pad, placed a whipstock device above the cement preventing reentry, and posted a plaque at the wellhead.

Event Date: 06/02/2005

Date Reported to Agreement State: 06/03/2005

Discovery Date: 06/02/2005

Date Reported to NRC: 04/14/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: KS-27-C057-01

Name: THE ROSEL CO.

NRC Docket Number: NA

City: LIBERAL

NRC Program Code: NA

State: KANSAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: CLARK COUNTY

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: K98

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
KS050022	04/12/2006		AGREEMENT STATE EVENT REPORT
EN42503	04/19/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 592 GBq (16 Ci) Am-Be source (Gammatron model NSR-F, serial #A2333) and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technology model CDC.CY3, serial #A5057). The sources became stuck during logging operations at 11,534 feet. Repeated attempts were made to free the sources but were unsuccessful. The sources were abandoned on 6/19/2005. Two cement plugs were used to seal the well, including red cement from 1,350 feet to the wellhead. A plaque has been placed on the wellhead.

Event Date: 06/17/2005
Discovery Date: 06/17/2005

Date Reported to Agreement State: 06/17/2005
Date Reported to NRC: 04/03/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: TX-L01833
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: SUGAR LAND

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: GAMMATRON
Model Number: NSR-F
Serial Number: A2333

Radionuclide: AM-BE
Activity: 16 Ci (592 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AEA TECHNOLOGIES
Model Number: CDC.CY3
Serial Number: A5057

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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TX060019	04/11/2006		AGREEMENT STATE EVENT REPORT
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TX-I-8320	04/11/2006		AGREEMENT STATE EVENT REPORT
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Narrative:

The licensee reported that an Amersham well logging source (serial #6101NE) became stuck downhole in the Scurry County well. The source contained Am-Be with an activity of 740 GBq (20 Ci). Repeated attempts to retrieve the well logging tool (Greenspan, model GS1691) and source were unsuccessful. The decision to abandon the source was made on 3/3/2006. Permission was granted on 3/6/2006. The well was plugged using 100 sacks of red-dyed cement and 300 sacks of non-dyed cement. A plaque will be placed on the well head.

Event Date: 02/15/2006

Date Reported to Agreement State: 03/22/2006

Discovery Date: 02/15/2006

Date Reported to NRC: 03/29/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01489

Name: WEAVER SERVICES

NRC Docket Number: NA

City: SNYDER

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 79550

Site of Event:

Site Name: SCURRY COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 20 Ci (740 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: 6101NE

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: GS1691

Manufacturer: GREENSPAN

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX060017	04/05/2006		AGREEMENT STATE EVENT REPORT
TEL060518	05/18/2006		OTHER
TX060017A	09/21/2006		AGREEMENT STATE EVENT REPORT
TX-I-8316	09/21/2006		AGREEMENT STATE EVENT REPORT
TX060017B	10/03/2006		AGREEMENT STATE EVENT REPORT
TX-I-8316A	10/03/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported abandoning a Cs-137 source (serial #19758B) with an activity of 92.5 GBq (2.5 Ci) and an Am-Be source (serial #N-732) with an activity of 185 GBq (5 Ci) down hole on 3/13/2006. The depth of the sources is between 14,423 and 14,430 feet. The hole was back filled with cement to a depth of 12,095 feet to prevent reentry into the hole.

Event Date: 03/13/2006

Date Reported to Agreement State: 03/14/2006

Discovery Date: 03/13/2006

Date Reported to NRC: 03/14/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: LAFAYETTE

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: N-732

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 19758B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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EN42419	03/20/2006		
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			EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
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LA060004	08/31/2006		
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			AGREEMENT STATE EVENT REPORT
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Narrative:

The licensee reported the theft of a powered neutron generator (PNG; Schlumberger model 761, serial #5327) that contained 59.2 GBq (1.6 Ci) of H-3. The H-3 was impregnated into the filament wire, which is sealed into the neutron generator tube. The tube is sealed inside the PNG assembly, which is sealed inside a downhole logging tool. A shipment containing three sections of a downhole logging tool, one of which contained the H-3, was stolen. Three hours after leaving the licensee facility in Webster, Texas, and prior to reaching their destination in Liberty, Texas, the driver stated that the tool was missing from the truck. A search for the tool was conducted and the Harris County Sheriff's Office was contacted. The search was continued for a two-week time period without finding the tool. Corrective actions taken by the licensee included meeting with Ace Trucking and stressing their source control expectations. They also requested design changes in Ace Trucking vehicles to better protect the materials during shipping. The requested changes have been completed.

Event Date: 04/07/2005

Date Reported to Agreement State: 04/22/2005

Discovery Date: 04/07/2005

Date Reported to NRC: 02/17/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: WEBSTER

State: TEXAS

Additional Involved Party:

License Number: NR

Name: NR

NRC Docket Number: NR

City: NR

NRC Program Code: NR

State: NR

NRC Region: NR

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / THEFT, SABOTAGE, OR VANDALISM

Old Cause: STOLEN LICENSED MATERIAL, SECURITY MEASURES DEFEATED

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

IMPROVE RADIOACTIVE MATERIAL LABELING AND HANDLING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.6 Ci (59.2 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON

Model Number: 761

Manufacturer: SCHLUMBERGER

Serial Number: 5327

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL STOLEN AND NOT RECOVERED

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8232	03/02/2006		AGREEMENT STATE EVENT REPORT
LTR060324	03/27/2006		AGREEMENT STATE LETTER

Narrative:

The licensee reported that a neutron generator well logging source (Pulse Neutron, model ING 101, serial #20413) containing 185 GBq (5 Ci) of H-3 was stuck in a well off the shore of Louisiana at a depth of approximately 11,000 feet. The well is located at Eugene Island, approximately 60 miles offshore). Efforts to retrieve the source were abandoned on 2/25/2006. The licensee was instructed by the NRC to place a 50-foot red concrete cap on the well. The licensee will also place a pressure seal plug on the well and will place a plaque on the well.

Event Date: 02/16/2006

Date Reported to Agreement State: 02/23/2006

Discovery Date: 02/16/2006

Date Reported to NRC: 02/23/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-7561-L01A

Name: NEWFIELD EXPLORATION CO.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77060

Site of Event:

Site Name: EUGENE ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: PULSE NEUTRON

Activity: 5 Ci (185 GBq)

Model Number: ING 101

IAEA Category: NA

Serial Number: 20413

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42371	03/01/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX060018	04/10/2006		AGREEMENT STATE EVENT REPORT
TX-I-8307	04/10/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported abandoning two sources during well logging operations. Operations were conducted at the Sawyer Canyon Field in Sonora, Texas. The logging unit had multiple failures, causing a free spool of tools and 18,000 feet of cable to enter into the hole. An Am-Be source (Amersham, model CDC.CY3, serial #A5006) containing an activity of 592 GBq (16 Ci) and a Cs-137 source (Gammatron, model NSR-F, serial #G5044) containing an activity of 63 GBq (1.7 Ci) were abandoned at depths of 8,590 and 8,607 feet, respectively. A fishing tool company attempted approximately 11 runs to recover the sources. The hole was cemented on 1/27/2006. An abandonment plaque was constructed with the relevant abandonment depth location information.

Event Date: 01/12/2006

Date Reported to Agreement State: 01/25/2006

Discovery Date: 01/12/2006

Date Reported to NRC: 02/17/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833-065

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SONORA

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 16 Ci (592 GBq)

Model Number: CDC.CY3

IAEA Category: 3

Serial Number: A5006

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 1.7 Ci (62.9 GBq)

Model Number: NSR-F

IAEA Category: 4

Serial Number: G5044

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42347	02/22/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8306	02/22/2006		AGREEMENT STATE EVENT REPORT
LTR061108	11/08/2006		AGREEMENT STATE LETTER

Narrative:

The licensee reported abandoning two sources during well logging operations. The logging tool was initially stuck on 12/2/2005 and abandoned on 12/7/2005. An Am-Be source (AEA Technologies, model AMN.CY6, serial #6977B) containing an activity of 740 GBq (20 Ci) and a Cs-137 source (AEA Technologies, model CDC.CY4, serial #6924B) containing an activity of 74 GBq (2 Ci) were abandoned at a depth of 6,165 feet. The well was 6,732 feet deep. All abandonment procedures were followed. On 12/7/2005, five joints of heavy wall drill pipe and a cement plug, consisting of 75 sacks of red-dyed cement for 144 feet of fill, were placed in the hole to a depth of 5,902 feet.

Event Date: 12/02/2005
Discovery Date: 12/02/2005

Date Reported to Agreement State: 12/05/2005
Date Reported to NRC: 02/02/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: LA-4413-L01
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: PRECISION ENERGY SERVICES
City: BROUSSARD
State: LOUISIANA
Zip Code: 70518

Site of Event:

Site Name: PORT BARRE

State: LOUISIANA

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AEA TECHNOLOGIES
Model Number: AMN.CY6
Serial Number: 6977B

Radionuclide: AM-BE
Activity: 20 Ci (740 GBq)
IAEA Category: 2

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AEA TECHNOLOGIES
Model Number: CDC.CY4
Serial Number: 6924B

Radionuclide: CS-137
Activity: 2 Ci (74 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42302	02/07/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR060306	03/07/2006		AGREEMENT STATE LETTER
LA050010	07/25/2006		AGREEMENT STATE EVENT REPORT

Narrative:

Baker Hughes Oilfield Operations reported the loss and recovery of a 92.5 GBq (2.5 Ci) Cs-137 well logging source. After completion of a job two to three miles south of Eunice, New Mexico, on 1/31/2006, the well logging crew secured the Am-Be source in its shipping container and departed the jobsite, leaving the unshielded source on the ground. Upon returning to their office in Midland, Texas, the crew discovered that the source was not in the vehicle. They immediately notified personnel in Hobbs, New Mexico. Hobbs personnel located, recovered, and secured the source approximately two hours after the Midland crew left the jobsite. An investigation determined that non-badged individuals were working in the area of the unshielded source. Initial calculations revealed that the highest dose to any of those individuals would be less than 0.7 mSv (70 mrem). The New Mexico Radiological Control Program determined that the maximum exposure to any individual was 0.6 mSv (60 mrem). This event was caused by the failure to conduct surveys during transfer of the source. INL has requested additional information for this event.

Event Date: 01/31/2006

Date Reported to Agreement State: 01/31/2006

Discovery Date: 01/31/2006

Date Reported to NRC: 02/01/2006

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: NM-WL-241-33

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOBBS

NRC Program Code: NA

State: NEW MEXICO

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: EUNICE

State: NEW MEXICO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: R

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

NOT REPORTED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2.5 Ci (92.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42298	02/06/2006		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
ML072700212	10/10/2007		NRC INFORMATION NOTICE
LTR090930	10/08/2009		AGREEMENT STATE LETTER

Narrative:

A Peterbilt tractor containing refrag soil and Ir-192 tracer beads from oil well drilling set off the radiation monitor alarms at the McKittrick Landfill. The load had come from the THUMS facility. The highest dose rate was 3.5 µSv/hour (350 µrem/hour) using an Exploranium GR-135 (background was 0.04 µrem/hour or 4 µrem/hour). The material was supposed to have been surveyed by the licensee (THUMS licensed contractor) before it left the THUMS facility. DOT Exemption CA-CA-05-044 was issued and the material was returned to the THUMS facility. The licensee disposed of the material by injection into Well D-563. The total activity of the Ir-192 was estimated at 18.5 MBq (500 µCi) by the California Department of Health. It was determined that the licensee improperly injected the material into the well for disposal, failed to follow their license commitments for performing proper surveys, and failed to follow their established policies and procedures. The licensee was notified by the California Licensing Unit to submit an Amendment request in order for Licensing to evaluate whether or not that type of disposal will be allowed in the future. THUMS was also issued a notice that they will not be allowed to dispose of that type of material in the future unless the licensee is able to have their radioactive materials license amended to allow that type of disposal in the future. Corrective actions taken by the licensee included retraining of staff in the proper survey procedures and on their existing policies and procedures.

Event Date: 09/22/2005

Date Reported to Agreement State: 09/22/2005

Discovery Date: 09/22/2005

Date Reported to NRC: 09/27/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-6386-15

Name: PROTECHNICS

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: MCKITTRICK

State: CALIFORNIA

Additional Involved Party:

License Number: NR

Name: THUMS

NRC Docket Number: NR

City: LONG BEACH

NRC Program Code: NR

State: CALIFORNIA

NRC Region: 4

Zip Code: 90802

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

PERSONNEL RECEIVED ADDITIONAL TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: IR-192

Manufacturer: NR

Activity: 0.0005 Ci (500 µCi or 18.5 MBq)

Model Number: NA

IAEA Category: 5

Serial Number: NA

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WASTE, RADIOACTIVE

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(ii) - Lost, stolen, or missing licensed material in a quantity greater than 10 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

RAD MATERIAL IN LANDFILL/INCINERATOR/SCRAP METAL

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA790	10/10/2005		AGREEMENT STATE EVENT REPORT
LTR060306	03/06/2006		AGREEMENT STATE LETTER
LTR060502	05/02/2006		AGREEMENT STATE LETTER

Narrative:

The licensee reported the loss and recovery of a Cs-137 well logging source (serial #A5-509) that contained an activity of 3.7 GBq (100 mCi). Two well logging sources (a Cs-137 and an Am-Be source) were shipped by Federal Express overnight on 9/21/2005 from Denver, Colorado, to Salisbury, Maryland. The Am-Be source arrived in Salisbury on 9/24/2005 after being delayed in Memphis, Tennessee, but the Cs-137 source had not arrived. After a search by Federal Express, the package containing the Cs-137 source was located at approximately 1530 CDT on 9/28/2005 in Memphis, Tennessee. The package will be delivered to the Salisbury facility on 9/29/2005.

Event Date: 09/21/2005

Date Reported to Agreement State:

Discovery Date: 09/22/2005

Date Reported to NRC: 09/26/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 05-01399-08

Name: DEPARTMENT OF THE INTERIOR

NRC Docket Number: 03003728

City: DENVER

NRC Program Code: 03610

State: COLORADO

NRC Region: 4

Zip Code: 80225

Site of Event:

Site Name: DENVER

State: COLORADO

Additional Involved Party:

License Number: NON-LICENSEE

Name: FEDERAL EXPRESS

NRC Docket Number: NA

City: MEMPHIS

NRC Program Code: NA

State: TENNESSEE

NRC Region: 1

Zip Code: 38125

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: A5-509

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN42015	09/27/2005		EVENT NOTIFICATION
LTR150514	05/19/2015		NRC LETTER

Narrative:

The licensee reported the loss of two Schlumberger H-3 neutron pulse generators (model 7158) from an oil platform (ENSCO-29) in the Gulf of Mexico, due to hurricane Katrina. Each generator contained 59.2 GBq (1.6 Ci) of H-3. The platform was severely damaged and most equipment was lost due to the hurricane.

Event Date: 08/29/2005
Discovery Date: 09/09/2005

Date Reported to Agreement State:
Date Reported to NRC: 09/09/2005

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 42-00090-03
NRC Docket Number: 03006388
NRC Program Code: 03110
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: ENSCO-29

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EXTERNAL / WEATHER OR AMBIENT CONDITION

Old Cause: TORNADO/WIND STORM RESULTING IN INOPERABLE EQUIPMENT

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: NR

Radionuclide: H-3
Activity: 1.6 Ci (59.2 GBq)
IAEA Category: NA

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: NR

Radionuclide: H-3
Activity: 1.6 Ci (59.2 GBq)
IAEA Category: NA

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON

Manufacturer: SCHLUMBERGER

Model Number: 7158

Serial Number: NR

Device Number: 2

Device Name: GENERATOR, NEUTRON

Manufacturer: SCHLUMBERGER

Model Number: 7158

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:**Reference Number: Entry Date: Retraction Date: Type of Report:**

EN41974 09/12/2005 EVENT NOTIFICATION

LTR150514 05/19/2015 NRC LETTER

Narrative:

The licensee reported that a Cs-137 source (New England Nuclear, model 572, serial #1623) that contained an activity of 3.7 GBq (100 mCi) became lodged near the bottom of a 240 foot deep shaft. The geophysical logging operations were being conducted approximately five miles south of Dacono, Colorado. The logging probe and source dropped to the bottom of the shaft after breaking loose from the logging cable at the surface of the well. Repeated efforts to retrieve the source failed. Retrieval efforts were discontinued when a four foot section of an overshot device twisted off at approximately 210 feet downhole. Authorization to abandon the well was formally granted on 9/6/2005. Corrective actions included writing a new procedure that specified more frequent inspections of cables and connectors.

Event Date: 07/28/2005

Date Reported to Agreement State: 08/23/2005

Discovery Date: 07/28/2005

Date Reported to NRC: 09/07/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CO-971-01

Name: LAYNE CHRISTENSEN CO., COLOG DIVISION

NRC Docket Number: NA

City: LAKEWOOD

NRC Program Code: NA

State: COLORADO

NRC Region: 4

Zip Code: 80215

Site of Event:

Site Name: DACONO

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

NEW PROCEDURE WRITTEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NEW ENGLAND NUCLEAR

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: 572

IAEA Category: 4

Serial Number: 1623

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41972	09/12/2005		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
CO05-I06-04	12/15/2005		AGREEMENT STATE EVENT REPORT
CO05-I06-04A	02/15/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-066), and a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #5016-GW). The well is located at Eugene Island Block 208 and is operated by Pioneer Natural Resources. The sources became stuck on 5/9/2005 and were declared irretrievable on 5/10/2005. The Am-Be source is located at a measured depth of 5,892 feet, and the Cs-137 source is located at a measured depth of 5,896 feet. The total measured depth of the well is 9,512 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 05/09/2005

Date Reported to Agreement State:

Discovery Date: 05/09/2005

Date Reported to NRC: 05/09/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: EUGENE ISLAND BLOCK 208

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-066

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 5016-GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML052300474	08/23/2005		REGION REPORT
ML052300474	08/23/2005		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 666 GBq (18 Ci) Am-Be source (Amersham model AMN.CY20, serial #06905B), and a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY16, serial #06960B). The well is located at Eugene Island Block 53 and is operated by Forest Oil Corporation. The sources became stuck on 5/5/2005; no attempts were made to retrieve the sources because of the potential to lose control of the well. The Am-Be source is located at a measured depth of 12,528 feet, and the Cs-137 source is located at a measured depth of 12,520 feet. The total measured depth of the well is 12,617 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 05/05/2005

Date Reported to Agreement State:

Discovery Date: 05/05/2005

Date Reported to NRC: 05/05/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: PRECISION ENERGY SERVICES, INC.

NRC Docket Number: 03030118

City: FORT WORTH

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: EUGENE ISLAND BLOCK 53

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 18 Ci (666 GBq)

Model Number: AMN.CY20

IAEA Category: 2

Serial Number: 06905B

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY16

IAEA Category: 4

Serial Number: 06960B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML052300474	08/23/2005		REGION REPORT
ML052300474	08/23/2005		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 370 GBq (10 Ci) Am-Be source (Gammatron model AN-HP, serial #N342), and a 62.9 GBq (1.7 Ci) Cs-137 source (AEA Technology model CDC.CY3, serial #A2093). The well is located at Green Canyon Block 320 and is operated by Kerr-McGee Oil and Gas Exploration. The sources became stuck on 4/7/2005 and were declared irretrievable on 4/22/2005. The Am-Be source is located at a measured depth of 24,379 feet, and the Cs-137 source is located at a measured depth of 24,381 feet. The total measured depth of the well is 24,490 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 04/07/2005

Date Reported to Agreement State:

Discovery Date: 04/07/2005

Date Reported to NRC: 04/22/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GREEN CANYON BLOCK 320

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10 Ci (370 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: N-342

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2093

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML052300463	08/22/2005		REGION REPORT
ML052300463	08/22/2005		LICENSEE REPORT

Narrative:

The licensee (dba Princeton Technology Center) reported the loss of an electronic neutron generator (minitron; model 758, serial #9621) that contained a 48.1 GBq (1.3 Ci) H-3 source. The device was manufactured by EMR Photoelectric (a division of Schlumberger Technology Corporation) and was being sent to Princeton Junction, New Jersey, via Federal Express for repair because it was stuck inside a steel well logging tool that was 10-feet long, just over 1.5-inches in diameter, and weighed 75 pounds. The well logging tool was packaged inside a PVC pipe that was 12-feet long and 2-inches in diameter. On 7/11/2005, the package was delivered to the Federal Express Ground facility in Webster, Texas. On 7/25/2005, the licensee realized that the shipment was overdue and contacted Federal Express. On 8/10/2005, Federal Express notified the licensee that the package had been damaged prior to reaching their facility in Hightstown, New Jersey. Packaging related to the shipment was found, but the contents were missing. Federal Express completed an investigation without determining the location of the device. The licensee temporarily suspended the use of Federal Express Ground services for transportation of hazardous materials and dangerous goods pending the implementation of a new in-house global tracking system.

Event Date: 07/12/2005

Date Reported to Agreement State:

Discovery Date: 08/17/2005

Date Reported to NRC: 08/18/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 29-08636-02

Name: SCHLUMBERGER PTC

NRC Docket Number: 03011318

City: PRINCETON JUNCTION

NRC Program Code: 03214

State: NEW JERSEY

NRC Region: 1

Zip Code: 08550

Site of Event:

Site Name: HIGHTSTOWN

State: NEW JERSEY

Additional Involved Party:

License Number: NON-LICENSEE

Name: FEDERAL EXPRESS

NRC Docket Number: NA

City: HIGHTSTOWN

NRC Program Code: NA

State: NEW JERSEY

NRC Region: 1

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: NR

Activity: 1.3 Ci (48.1 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: GENERATOR, NEUTRON
Manufacturer: EMR PHOTOELECTRIC

Model Number: 758
Serial Number: 9621

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41929	08/22/2005		EVENT NOTIFICATION
PN105024	08/22/2005		PRELIMINARY NOTIFICATION
- ML052310339	08/22/2005		Same as PN105024
LTR051031	11/02/2005		NRC LETTER
ML053120445	11/17/2005		OTHER
ML053630174	01/09/2006		REGION REPORT
ML053630174	01/09/2006		LICENSEE REPORT
ML062720133	10/10/2006		NRC LETTER
ML062720133	10/10/2006		INSPECTION REPORT

Narrative:

The licensee reported that an Am-Be source (Gammatron, model AN-HP, serial #N-604) containing an activity of 681 GBq (18.4 Ci) and a Cs-137 source (AEA Technologies, model CDC.CY4, serial #2810GW) containing an activity of 74 GBq (2 Ci) got stuck down hole. During cut and thread operations, the wireline parted at the surface, leaving 11,000 feet of wireline in the hole. The wireline had to be removed before attempts could be made to retrieve the logging tool string. Numerous attempts to retrieve the wireline were made between 8/4 and 9/21/2005, with only limited success, having retrieved approximately 6,900 feet of wireline. No further attempts were made and the logging tool containing the sources was considered irretrievable. The depth of the top of the cement plug is 7,011 feet, with the bottom of the plug being 7,363 feet. The measured depth of the well was 12,195 feet. The well is located offshore in Louisiana waters.

Event Date: 08/02/2005

Date Reported to Agreement State: 08/02/2005

Discovery Date: 08/02/2005

Date Reported to NRC: 08/08/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: PRECISION ENERGY SERVICES

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: OFFSHORE

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18.4 Ci (680.8 GBq)

Model Number: AN-HP

IAEA Category: 2

Serial Number: N-604

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 2810GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

EN41903 08/11/2005

EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE

LA050007 01/31/2006

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the loss of a Gamma Industries Am-Be source (model NB-HP, serial #NB5161NE), with an activity of 111 GBq (3 Ci), downhole. The source became stuck on 7/21/2005 and the licensee stopped fishing for the source and tool on 7/26/2005. The neutron source had backed off of the tool and fell to a depth of 3,210 feet. The event occurred in the Delhi field in Richland Parish. A cement plug and whipstock were put on top of the tool to prevent reentry into the well.

Event Date: 07/21/2005

Date Reported to Agreement State: 07/29/2005

Discovery Date: 07/21/2005

Date Reported to NRC: 07/29/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-7657-L01

Name: D & S WIRELINE

NRC Docket Number: NA

City: BASTROP

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 71220

Site of Event:

Site Name: RICHLAND PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMA INDUSTRIES

Activity: 3 Ci (111 GBq)

Model Number: NB-HP

IAEA Category: 3

Serial Number: NB5161NE

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41883	08/03/2005		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR051031	10/31/2005		AGREEMENT STATE LETTER
LA050006	01/31/2006		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the loss of two 59.2 GBq (1.6 Ci) H-3 neutron generator tubes (EMR Photoelectric, model 758, serial #MNTR-4716 and MNTR-5457) licensed for well logging. On 4/11/2005, the sources were shipped by Federal Express from the licensee's facility in Houma, Louisiana, to Princeton Junction, New Jersey. The shipment, which was tracked to different locations within Federal Express, was confirmed lost on 4/21/2005. The shipment was last tracked in Newark, New Jersey.

Event Date: 04/11/2005

Date Reported to Agreement State: 04/25/2005

Discovery Date: 04/21/2005

Date Reported to NRC: 04/25/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: HOUMA

State: LOUISIANA

Additional Involved Party:

License Number: NON-LICENSEE

Name: FEDERAL EXPRESS

NRC Docket Number: NA

City: NEWARK

NRC Program Code: NA

State: NEW JERSEY

NRC Region: 1

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: N

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: EMR PHOTOELECTRIC

Activity: 1.6 Ci (59.2 GBq)

Model Number: 758

IAEA Category: NA

Serial Number: MNTR-4716

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: EMR PHOTOELECTRIC

Activity: 1.6 Ci (59.2 GBq)

Model Number: 758

IAEA Category: NA

Serial Number: MNTR-5457

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Device Number: 2

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41633	04/28/2005		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR050719	07/20/2005		AGREEMENT STATE LETTER
TN05051	09/28/2005		AGREEMENT STATE EVENT REPORT
LTR051005	10/05/2005		AGREEMENT STATE LETTER

Narrative:

A roll-off containing soil and debris, contaminated with an oily substance, set off the radiation monitor alarms at the McKittrick Landfill. The roll-off container was from THUMS Long Beach Company. The material was supposed to have been surveyed by Protechnics (THUMS licensed contractor) before it left the THUMS facility. Preliminary measurements taken by landfill employees revealed the radionuclide as possibly Ir-192 at 17.5 kcpm. Maximum radiation levels were determined to be 0.92 mR/hour on the surface of the roll-off. THUMS subsequently reported the radionuclide as Np-237. The California Department of Health Service determined the material to be soil contaminated with "zero wash" Ir-192 tracers used in oil well logging work. The activity was estimated to be between approximately 6.4 and 18.5 MBq (173 and 500 µCi). DOT Exemption CA-CA-04-046 was issued for the return, identification, and disposal of the material. It was determined that Protechnics improperly injected the material into a well (D-563) for disposal, failed to follow their license commitments for performing proper surveys, and failed to follow their established policies and procedures. Protechnics was notified by the California Licensing Unit to submit an Amendment request in order for Licensing to evaluate whether or not that type of disposal will be allowed in the future. THUMS was also issued a notice that they will not be allowed to dispose of that type of material in the future unless Protechnics is able to have their radioactive materials license amended to allow that type of disposal. Corrective actions taken by Protechnics included retraining of staff in the proper survey procedures and on their existing policies and procedures.

Event Date: 09/16/2004

Date Reported to Agreement State: 09/16/2004

Discovery Date: 09/16/2004

Date Reported to NRC: 03/16/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-6386-15

Name: PROTECHNICS

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: MCKITTRICK

State: CALIFORNIA

Additional Involved Party:

License Number: NR

Name: THUMS

NRC Docket Number: NR

City: LONG BEACH

NRC Program Code: NR

State: CALIFORNIA

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

PERSONNEL RECEIVED ADDITIONAL TRAINING

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: IR-192

Manufacturer: NR

Activity: 0.0005 Ci (500 µCi or 18.5 MBq)

Model Number: NA

IAEA Category: 5

Serial Number: NA

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WASTE, RADIOACTIVE

Manufacturer: NR

Model Number: NA

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(ii) - Lost, stolen, or missing licensed material in a quantity greater than 10 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

RAD MATERIAL IN LANDFILL/INCINERATOR/SCRAP METAL

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA574	04/11/2005		AGREEMENT STATE EVENT REPORT
LTR060305	03/06/2006		AGREEMENT STATE LETTER
LTR060306	03/06/2006		AGREEMENT STATE LETTER
LTR060307	03/07/2006		AGREEMENT STATE LETTER
LTR080118	01/21/2008		AGREEMENT STATE LETTER

Narrative:

Schlumberger reported that the licensee has a stuck well logging source tool in a well located in Knott County, Kentucky. When trying to retrieve the tool, it broke in half. The upper portion of the tool, containing the Am-241 source, was retrieved with no radioactive contamination detected. The rest of the tool, containing the Cs-137 source with an activity of 62.9 GBq (1.7 Ci), is at an estimated depth of 3,460 feet. There is no source rupture or radioactive contamination. The licensee will pour 500 feet of cement on top of the stuck source and then place a wipstock on top of the cement plug. State of Kentucky Department of Radiation Control personnel will be present when the well is plugged. INL has requested additional information for this event.

Event Date:	02/18/2005	Date Reported to Agreement State:	02/18/2005
Discovery Date:	02/18/2005	Date Reported to NRC:	02/18/2005

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	KY-201-027-56	Name:	EQUITABLE PRODUCTION CO.
NRC Docket Number:	NA	City:	NR
NRC Program Code:	NA	State:	KENTUCKY
NRC Region:	1	Zip Code:	NR

Site of Event:

Site Name:	KNOTT COUNTY	State:	KENTUCKY
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	R
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.7 Ci (62.9 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41419	02/23/2005		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR080409	04/14/2008		AGREEMENT STATE LETTER

Narrative:

The licensee reported the loss and recovery of a shipment containing a 684.5 GBq (18.5 Ci) Am-Be well logging source and an 18.5 GBq (0.5 Ci) Am-241 calibration source. The sources were being shipped from Nizhnevartovsk, Russia, to Houston, Texas. Both sources were in a Type A container that was 18 inches in diameter, 23 inches long, and weighed 183 pounds. The shipment was tracked through Amsterdam to the JFK airport in Jamaica, New York, where it cleared customs on 10/9/2004. After clearing customs, the licensee was unable to track the package to any of the transport companies that were scheduled to handle it. The sources were subsequently found on 2/9/2005 at the Forward Air Freight facility in Boston, Massachusetts. The sources had been trucked to Boston after a Boston label was inadvertently placed on the package at the New York Forward Air Freight facility. A licensee representative verified that the sources and packaging were intact and all source material was accounted for. Forward Air Freight shipped the package to the licensee's facility in Houston, where it arrived on 2/14/2005. Corrective actions taken by the licensee included revising shipping procedures for radioactive materials and developing a global positioning system for tracking radioactive sources.

Event Date: 10/09/2004

Date Reported to Agreement State:

Discovery Date: 02/08/2005

Date Reported to NRC: 02/08/2005

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: BOSTON

State: MASSACHUSETTS

Additional Involved Party:

License Number: NR

Name: NR

NRC Docket Number: NR

City: NR

NRC Program Code: NR

State: NR

NRC Region: NR

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

NEW PROCEDURE WRITTEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18.5 Ci (684.5 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: NR

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE CALIB/MARKER	Radionuclide:	AM-241
Manufacturer:	NR	Activity:	0.5 Ci (500 mCi or 18.5 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	CONTAINER, SHIPPING	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

GREATER THAN 10 CI - NOT H-3
MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41387	02/09/2005		EVENT NOTIFICATION
LTR050421	04/21/2005		NRC LETTER
LTR050816	08/17/2005		NRC LETTER
ML051030102	08/23/2005		NRC LETTER
ML051440498	08/23/2005		INSPECTION REPORT
ML051800782	08/23/2005		NRC LETTER
ML051800782	08/23/2005		OTHER

Narrative:

Weatherford International (formerly Computalog Wireline services) reported the abandonment of an irretrievable well logging source. The source (Isotope Products model HEG-137, serial #XX-824) contained 1.67 GBq (45 mCi) of Cs-137. The well is located in federal waters offshore Louisiana at South Marsh Island Block 142. The well logging tool became stuck on 7/26/2004, at which time the well was operated by Hunt Petroleum (AEC), Incorporated. Recovery efforts on 7/27-28/2004 were unsuccessful. The source could not be abandoned at the time because it was in the production zone. Additional recovery efforts on 7/1-4/2014 were also unsuccessful and the source was abandoned on 8/18/2014, at which time the well was operated by Fieldwood Energy. The source is located at a measured depth between 6,238 and 6,423 feet. The measured depth of the well is 8,082 feet. The top of the cement plug is at 2,473 feet. Steel ball bearings were placed above the cement plug as a deflection device. A plaque will be placed at the well head.

Event Date: 07/26/2004

Date Reported to Agreement State:

Discovery Date: 07/26/2004

Date Reported to NRC: 07/26/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26891-01

Name: COMPUTALOG WIRELINE SERVICES, INC.

NRC Docket Number: 03030118

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77074

Site of Event:

Site Name: SOUTH MARSH ISLAND BLOCK 142

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: ISOTOPE PRODUCTS LAB

Activity: 0.045 Ci (45 mCi or 1.665 GBq)

Model Number: HEG-137

IAEA Category: 4

Serial Number: XX-824

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR050114	02/08/2005		REGION REPORT
LTR050114	02/08/2005		LICENSEE REPORT
ML14203A238	09/16/2014		NRC LETTER
ML14254A044	09/16/2014		LICENSEE REPORT
ML14267A250	10/02/2014		LICENSEE REPORT
ML14267A257	10/02/2014		LICENSEE REPORT
ML15030A206	02/09/2015		REGION REPORT
ML15093A089	04/07/2015		REGION REPORT

Narrative:

The licensee reported that two well logging sources became stuck in a well bore at a depth below 5,800 feet. The sources contained Am-Be (model NSR-F) with an activity of 592 GBq (16 Ci) and Cs-137 (model GSR-J) with an activity of 62.9 GBq (1.7 Ci). Fishing attempts were conducted by Baker Hughes and continued through 1/27/2005. Attempts were unsuccessful and the sources were deemed irretrievable. The well is located at the Oxy Elk Hills well site, approximately 15 miles northeast of Taft, California.

Event Date: 01/14/2005

Date Reported to Agreement State: 01/21/2005

Discovery Date: 01/14/2005

Date Reported to NRC: 01/21/2005

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: OILDALE

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: TAFT

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41349	01/26/2005		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
CA-XCA668	03/22/2005		AGREEMENT STATE EVENT REPORT
LTR050328	03/28/2005		AGREEMENT STATE LETTER
LTR060321	03/22/2006		AGREEMENT STATE LETTER

Narrative:

The licensee reported that a well logging tool string became stuck during logging operations. The tool string contained a Gammatron, Incorporated, Am-Be source (model NSR-F, serial #G5053) with an activity of 592 GBq (16 Ci) and an AEA Technologies Cs-137 source (model GSR-J, serial #AL927) with an activity of 62.9 GBq (1.7 Ci). Operations were being conducted by Famcor Oil, Incorporated, at a well located in San Jacinto County, Texas. The source string is below 3,319 feet of drill pipe stuck in sand-shale and sand-shale interfaces. Multiple attempts at recovery were conducted between 10/22 and 10/29/2004. The Am-Be source was cemented in place at 8,326 feet and the Cs-137 source was cemented in place at 8,339 feet. Two hundred feet of red oxide dyed cement was placed on top of the stuck drill pipe from 4,984 to 4,750 feet. A used drill bit was placed as a deflection device at 4,750 feet. An additional 208 feet of cement was placed on top of the drill bit, with the top of the cement located at 4,550 feet. The job was completed on 10/30/2004. A required plaque was ordered on 11/19/2004 and will be placed on the well head when received.

Event Date: 08/30/2004

Date Reported to Agreement State: 10/28/2004

Discovery Date: 08/30/2004

Date Reported to NRC: 11/24/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SAN JACINTO COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5053

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: AL927

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41222	11/29/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8185	11/29/2004		AGREEMENT STATE EVENT REPORT
TX-I-8185A	12/17/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable Gulf Nuclear well logging source (model VL-1, serial #VL-1-917) that contained Cs-137 with an activity of 9.25 GBq (250 mCi). After performing services to determine the oil/water contact interface and the gas/oil interface levels, the wireline and source were retracted. The wireline was attached to a 1 and 11/16 inch tool in the salt dome. During retraction, the source became stuck on entry to the hole to the surface. The source broke loose from the wireline at the established weak point. The source was deemed unrecoverable. The source was abandoned at a probable depth of 4,037 feet. The well is located at the Bryan Mound Strategic Petroleum Reserve in Brazoria County, Texas.

Event Date:	05/11/2004	Date Reported to Agreement State:	05/26/2004
Discovery Date:	05/11/2004	Date Reported to NRC:	11/01/2004

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L04286-018	Name:	COMPUTALOG WIRELINE SERVICE, INC.
NRC Docket Number:	NA	City:	ALVIN
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	NR

Site of Event:

Site Name:	BRAZORIA COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GULF NUCLEAR	Activity:	0.25 Ci (250 mCi or 9.25 GBq)
Model Number:	VL-1	IAEA Category:	4
Serial Number:	VL-1-917		

Device/Associated Equipment:

LAS

Device Number:	1		
Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8180	11/16/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources: a 703 GBq (19 Ci) Am-Be source (Amersham model AMN.CY19, serial #0039NN), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #3111GW), a 55.5 kBq (1.5 µCi) Cs-137 source (Isotope Products model 3024, serial #A3-754), and a 18.5 kBq (0.5 µCi) Cs-137 source (Isotope Products model 3024, serial #A3-757). The well is located at Lloyd Ridge Block 399 and is operated by Shell Exploration & Production Company. The sources became stuck on 7/21/2004 and were declared irretrievable on 7/25/2003. The Am-Be source is located at a measured depth of 22,739 feet (vertical depth of 22,737 feet). The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 22,722 feet (vertical depth of 22,719 feet). The total measured depth of the well is 23,392 feet (vertical depth of 23,389 feet). The measured depth of the cement abandonment plug is from 21,248 feet to 22,200 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 07/21/2004

Date Reported to Agreement State:

Discovery Date: 07/21/2004

Date Reported to NRC: 07/22/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: LLOYD RIDGE BLOCK 399

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 19 Ci (703 GBq)

Model Number: CDC.CY19

IAEA Category: 2

Serial Number: 0039NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 3111GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	A3-754		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	A3-757		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040818	11/10/2004		LICENSEE REPORT
LTR041018	11/10/2004		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 592 GBq (16 Ci) Am-Be source (Schlumberger model NSR-F, serial #G5053), and a 62.9 GBq (1.7 Ci) Cs-137 source (Schlumberger model GSR-J, serial #A5060). The well is located at East Cameron Block 43 and is operated by Energy Partners, Ltd. The sources became stuck on 8/28/2004 and were declared irretrievable on 8/30/2003. The Am-Be source is located at a measured depth of 12,673 feet, and the Cs-137 source is located at a measured depth of 12,677 feet. The total measured depth of the well is 12,900 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 08/28/2004

Date Reported to Agreement State:

Discovery Date: 08/28/2004

Date Reported to NRC: 08/30/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EAST CAMERON BLOCK 43

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5053

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SCHLUMBERGER

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: G5060

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML042930721	11/04/2004		LICENSEE REPORT
LTR041213	01/05/2005		REGION REPORT
LTR041213	01/05/2005		LICENSEE REPORT
ML043480142	01/05/2005		REGION REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources: a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #8639NK-1), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #3086GW), a 55.5 kBq (1.5 µCi) Cs-137 source (Isotope Products model 3024, serial #A6-988), and a 18.5 kBq (0.5 µCi) Cs-137 source (Isotope Products model 3024, serial #A6-989). The well is located at Garden Banks Block 625 and is operated by Kerr McGee Oil and Gas Corporation. The sources became stuck on 8/30/2004 and were declared irretrievable on 8/31/2003. The Am-Be source is located at a measured depth of 19,659 feet (vertical depth of 19,214 feet). The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 19,650 feet (vertical depth of 19,207 feet). The total measured depth of the well is 19,766 feet (vertical depth of 19,297 feet). The measured depth of the cement abandonment plug is from 18,215 feet to 18,800 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 08/30/2004

Date Reported to Agreement State:

Discovery Date: 08/30/2004

Date Reported to NRC: 08/31/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GARDEN BANKS BLOCK 625

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8639NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 3086GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	A6-988		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	A6-989		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML042920465	11/04/2004		LICENSEE REPORT
LTR041213	01/05/2005		REGION REPORT
LTR041213	01/05/2005		LICENSEE REPORT
ML043480142	01/05/2005		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (serial #ZN 588BW) and a 74 GBq (2 Ci) Cs-137 source (serial #PP 14047B). The well is located in federal waters offshore Louisiana at Mississippi Canyon Block 806 and was operated by Shell Oil Corporation. The Am-Be source is located at a measured depth of 21,080 feet (16,288 feet vertical depth) and the Cs-137 source is located at a measured depth of 21,090 feet (16,296 feet vertical depth). The measured depth to the top of the cement plug is approximately 14,345 feet. The measured depth of the well is 21,145 feet (16,344 feet vertical depth).

Event Date: 08/16/2004

Date Reported to Agreement State:

Discovery Date: 08/16/2004

Date Reported to NRC: 09/24/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MISSISSIPPI CANYON 806

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: ZN 588BW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: PP 14047B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML042920518	10/28/2004		LICENSEE REPORT
LTR041018	11/10/2004		REGION REPORT

Narrative:

The licensee reported the abandonment of three well logging sources. The well logging string containing a Gammatron Am-Be source (model DA-20, serial #56525) with an activity of 666 GBq (18 Ci), an AEA Technologies Cs-137 source (model CDC.CY4, serial #2815GW) with an activity of 77.7 GBq (2.1 Ci), and a Gammatron Cs-137 source (model GT-GHP) with an activity of 29.6 kBq (0.8 µCi) became stuck in a 6.75 inch well bore. The well is located in Galveston County, Texas. Attempts to fish for the sources were unsuccessful and the fishing tool became stuck in the well bore above the well logging tool. The sources were declared abandoned late on 10/19/2004. On 10/22/2004, 450 feet of red-dyed cement was set and dressed to 200 feet. The hole will be sidetracked at approximately 8,640 feet with the new hole cased and cemented. The new casing will serve as the deflection device to prevent re-entry into the original well bore. The tool string is sitting at the bottom of the well at a depth of 9,038 feet.

Event Date: 10/19/2004

Date Reported to Agreement State: 10/20/2004

Discovery Date: 10/19/2004

Date Reported to NRC: 10/20/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: GALVESTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18 Ci (666 GBq)

Model Number: DA-20

IAEA Category: 2

Serial Number: 56525

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2.1 Ci (77.7 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 2815GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41141	10/25/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8175	10/25/2004		AGREEMENT STATE EVENT REPORT
TX-I-8175A	11/16/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a 1.93 GBq (52.1 mCi) Cs-137 source (AEA Technology model CDC.808, serial #1489CX) within a tool string fell overboard into approximately 35 feet of water. This occurred during well logging operations on a fixed platform in the Gulf of Mexico when the well logging tool separated from the wire line and fell overboard. DiveCon, LLC was contracted to retrieve the tool string. The tool string and source were recovered on 10/21/2004. The source was not damaged and a leak test was negative. Dosimeters worn by the divers showed no detectable exposure.

Event Date: 10/19/2004
Discovery Date: 10/19/2004

Date Reported to Agreement State:
Date Reported to NRC: 10/19/2004

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 42-26891-01
NRC Docket Number: 03030118
NRC Program Code: 03110
NRC Region: 4

Reciprocity: NONE
Name: COMPUTALOG WIRELINE SERVICES, INC.
City: FORT WORTH
State: TEXAS
Zip Code: 76126

Site of Event:

Site Name: GULF OF MEXICO

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART
Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AEA TECHNOLOGIES
Model Number: CDC.808
Serial Number: 1489CX

Radionuclide: CS-137
Activity: 0.0521 Ci (52.1 mCi or 1.9277 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN41138	10/20/2004		EVENT NOTIFICATION
LTR041213	01/05/2005		REGION REPORT
LTR041213	01/05/2005		LICENSEE REPORT
ML043480142	01/05/2005		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. One source (serial #PPN-718) contained Am-Be with an activity of 185 GBq (5 Ci) and the other (serial #8214B) contained Cs-137 with an activity of 74 GBq (2 Ci). The well is located offshore Louisiana at Main Pass Block 282 and is operated by Apache Corporation. Over 1,000 feet of cement was placed on top of the sources, 7 feet of drilling pipe was used as a deflection device, and a warning plaque was ordered.

Event Date: 07/30/2004

Date Reported to Agreement State:

Discovery Date: 07/30/2004

Date Reported to NRC: 08/04/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: MAIN PASS BLOCK 282

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: PPN-718

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 8214B

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040830	10/06/2004		REGION REPORT
LTR041018	10/19/2004		NRC LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. One source (serial #10219) contained Am-Be with an activity of 185 GBq (5 Ci) and the other (serial #587) contained Cs-137 with an activity of 74 GBq (2 Ci). The well is located offshore Louisiana at Ship Shoal Block 259 and is operated by Apache Corporation. Over 2,000 feet of cement was placed on top of the sources, 646 feet of drilling pipe was used as a deflection device, and a warning plaque was ordered.

Event Date: 07/28/2004

Date Reported to Agreement State:

Discovery Date: 07/28/2004

Date Reported to NRC: 08/04/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SHIP SHOAL BLOCK 259

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 10219

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 587

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040830	10/06/2004		REGION REPORT
LTR041018	10/19/2004		NRC LETTER

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources. The sources included a 666 GBq (18 Ci) Am-Be source (Gammatron model DA-20, serial #48503), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY4, serial #934), and a 29.6 kBq (0.8 µCi) Cs-137 source (Gammatron model GT-GHP, serial #Z-096). The well is located offshore Louisiana at West Cameron. The sources were abandoned according to procedure and a plaque will be posted.

Event Date: 06/16/2004

Date Reported to Agreement State:

Discovery Date: 06/16/2004

Date Reported to NRC: 06/22/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: WEST CAMERON

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-241

Manufacturer: GAMMATRON

Activity: 18 Ci (666 GBq)

Model Number: DA-20

IAEA Category: 2

Serial Number: 48503

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 934

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	Z-096		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040830	10/06/2004		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. The sources included a 185 GBq (5 Ci) Am-Be source (Amersham model NLS, serial #PPN-701) and a 74 GBq (2 Ci) Cs-137 source (Amersham model DLS, serial #Z3002GW). The well is located in federal waters offshore Louisiana at Timbalier Block 229. A cement plug was set to prevent inadvertent intrusion.

Event Date: 06/12/2004

Date Reported to Agreement State:

Discovery Date: 06/12/2004

Date Reported to NRC: 06/21/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: TIMBALIER BLOCK 229

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 5 Ci (185 GBq)

Model Number: NLS

IAEA Category: 3

Serial Number: PPN-701

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: DLS

IAEA Category: 4

Serial Number: Z3002GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040712	08/26/2004		REGION REPORT
LTR040913	09/14/2004		NRC LETTER
LTR040830	10/06/2004		REGION REPORT

Narrative:

The licensee reported of the abandonment of a GammaTron sealed source (model DA-20, serial #36313), containing Am-Be with an activity of 666 GBq (18 Ci), downhole. After well logging operations, the well logger was removing the source from the tool on the training well. The tool was not fully engaged with the source. When the source cleared the logging tool, the well logger bumped the source into the deflector, causing the source to drop from the handling tool. The deflector performed properly and deflected the source downhole. The well is an uncased hard-rock well and is located on the licensee's property for training. The source is known to be at the bottom of the 5,740-foot well. The well was full of fluid and the operator tried to replace the fluid with clear fluid and conduct fishing operations. The source was not recovered. It was cemented in place at the bottom of the well. Plugging operations concluded on 9/13/2004, with the placement of a deflection device. The licensee has order a well head plaque for installation on the well head.

Event Date: 08/10/2004

Date Reported to Agreement State: 08/11/2004

Discovery Date: 08/10/2004

Date Reported to NRC: 08/11/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05178-018

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: ODESSA

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 79764

Site of Event:

Site Name: ODESSA

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18 Ci (666 GBq)

Model Number: DA-20

IAEA Category: 2

Serial Number: 36313

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:**Reference Number:** **Entry Date:** **Retraction Date:** **Type of Report:**

EN40942	08/16/2004	EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8152	08/16/2004	AGREEMENT STATE EVENT REPORT
LTR041019	10/20/2004	AGREEMENT STATE LETTER
LTR041026	10/26/2004	AGREEMENT STATE LETTER
TX-I-8152A	10/26/2004	AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable Gulf Nuclear well logging source (model CSV, serial #CSV-F74) that contained Cs-137 with an activity of 3.7 GBq (100 mCi). After performing services to determine the oil/water contact interface and the gas/oil interface levels, the wireline and source were retracted. The wireline was attached to a 1 and 11/16 inch tool in the salt dome. During retraction, the source became stuck on entry to the hole to the surface. The source broke loose from the wireline at the established weak point. The source was deemed unrecoverable. The source was abandoned at a probable depth of 4,168 feet. The well is located at the Bryan Mound Strategic Petroleum Reserve in Brazoria County, Texas.

Event Date: 07/06/2004

Date Reported to Agreement State: 07/09/2004

Discovery Date: 07/06/2004

Date Reported to NRC: 07/12/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286-018

Name: COMPUTALOG WIRELINE SERVICE, INC.

NRC Docket Number: NA

City: ALVIN

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: BRAZORIA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: CSV-F74

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40864	07/15/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8142	07/15/2004		AGREEMENT STATE EVENT REPORT
TX-I-8142A	11/16/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the loss and recovery of a 62.9 GBq (1.7 Ci) Cs-137 source. The event also involved a reportable exposure to four members of the public. The well logging crew (from the Midland Office) was working at a well site in Pecos County, Texas, using a CAPSTAR rig (without a floor). During the evening of 7/9/2004, the rig was moved to a new site. While setting up for work at the new site, the well loggers realized that the source was missing from the well logging tool. They returned to the original site and found the source in the mud approximately 10 to 15 feet from the previous rig location. The source was missing for 24 to 36 hours. A licensee management team was dispatched from Houston to assess dose and investigate the incident. The Texas Department of Health also dispatched an inspector to the site. The inspector determined that a person on the drilling crew (a member of the public) picked up the source by hand. The individual received an estimated dose of 49 cSv (rem) to his hand and a calculated dose of 1.21 cSv (rem) to his whole body. An occupational health physician is monitoring the individual weekly. Three other members of the drilling crew received calculated doses greater than the non-occupational limit of 1 mSv (100 mrem). Doses received were 2.9, 2.7 and 1.5 mSv (291, 270 and 148 mrem). Another 28 individuals, members of the public, received doses ranging from 1 mSv to 0.01 mSv (98 mrem to 1 mrem) from the event. The Radiation Emergency Assistance Center/Training Site (REAC/TS) assisted the licensee and the State in evaluating the doses. The investigation determined that no radiation surveys were performed and the logging crew had not followed procedures. Several employees have been terminated. As of 7/20/2004, this incident had a provisional INES Rating Level of 2.

Event Date: 07/09/2004

Date Reported to Agreement State: 07/10/2004

Discovery Date: 07/10/2004

Date Reported to NRC: 07/12/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833-042

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: PECOS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EXP - OVEREXPOSURE

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EXP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

EXP

IAEA Aggregate Category: 4

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

EXP

PERSONNEL TERMINATED

LAS

PERSONNEL TERMINATED

Exposure Detail:**Person #: 1**

Exposure Dose: 1.21 rem (12.1 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 1A

Exposure Dose: 49 rem (490 mSv)
Type of Dose: EXTREMITY, NON OCCUPATIONAL
Effect:

Person #: 2

Exposure Dose: 0.291 rem (291 mrem or 2.91 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 3

Exposure Dose: 0.27 rem (270 mrem or 2.7 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 4

Exposure Dose: 0.148 rem (148 mrem or 1.48 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Source of Radiation:

EXP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.7 Ci (62.9 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

LAS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.7 Ci (62.9 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	NR		

Reporting Requirements:

EXP

20.2203(a)(2)(iv) - Doses in excess of the limits for an individual member of the public in 20.1301.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40863	07/15/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8141	07/15/2004		AGREEMENT STATE EVENT REPORT
PN404016	07/20/2004		PRELIMINARY NOTIFICATION REPORTED FROM AN AGREEMENT STATE
- ML041980398	07/20/2004		Same as PN404016
ML042100243	08/09/2004		OTHER
PN404016A	08/26/2004		PRELIMINARY NOTIFICATION REPORTED FROM AN AGREEMENT STATE
- ML042380428	08/26/2004		Same as PN404016A

LTR040921
LTR081210

09/21/2004
01/12/2009

AGREEMENT STATE LETTER
INES REPORT

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources, including an Am-Be source (GammaTron, model DA-20, serial #39270) with an activity of 666 GBq (18 Ci), a Cs-137 source (AEA Technology, model CDC.CY4, serial #14052B) with an activity of 92.5 GBq (2.5 Ci), and a Cs-137 source (GammaTron, model GT-GHP, serial #V-508) with an activity of 29.6 kBq (0.8 µCi). The sources were abandoned in a well with a total depth of 9,034 feet. The top of the well logging tool-string is located at 8,697 feet and fishing attempts were not successful. The well is located in Hidalgo County, Texas, and is operated by the Edge Petroleum Company. Approximately 300 feet of red-tagged cement was used to secure the string in place. Negotiations with the Texas Railroad Commission allowed Edge Petroleum to use 2 7/8 inch production tubing to the top of the cement instead of a deflection device. This will allow continued production of the well. The licensee ordered a plaque for installation on the wellhead.

Event Date: 07/04/2004

Date Reported to Agreement State: 07/04/2004

Discovery Date: 07/04/2004

Date Reported to NRC: 07/05/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446-060

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: HIDALGO COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18 Ci (666 GBq)

Model Number: DA-20

IAEA Category: 2

Serial Number: 39270

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2.5 Ci (92.5 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 14052B

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	V-508		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40852	07/08/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8136	08/16/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee (dba Baker Atlas) reported that a well logging truck carrying radioactive sources caught on fire in Wyoming, approximately seven miles north of the Wyoming/Utah state line on Highway 191. The driver was able to remove all radioactive sources from the truck, except for two assemblies containing three Cs-137 sources (Gammatron model GT-GHP) that remained in the truck until the fire was extinguished. The source activities were 22.2 MBq (600 µCi), 3.7 MBq (100 µCi), and 0.03 MBq (0.8 µCi). The sources were recovered intact and without damage after the fire was extinguished. Surveys showed no removable contamination. The truck was transported back to the licensee's field office in Rock Springs, Wyoming. The cause of the fire could not be determined, but a tire blow out was suspected. The licensee was working under reciprocity in the State of Utah.

Event Date: 06/28/2004

Date Reported to Agreement State: 06/29/2004

Discovery Date: 06/28/2004

Date Reported to NRC: 06/29/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NRCAS

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: SWEETWATER COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

TRS - TRANSPORTATION

Event Cause:

EQP

EXTERNAL / EXTERNAL FIRE OR EXPLOSION

Old Cause: FIRE/EXPLOSION RESULTING IN INOPERABLE EQUIPMENT

TRS

EXTERNAL / EXTERNAL FIRE OR EXPLOSION

Old Cause: FIRE/EXPLOSION RESULTING IN INOPERABLE EQUIPMENT

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 5

TRS

IAEA Aggregate Category: 5

Corrective Actions Information:

EQP

NO CORRECTIVE ACTION TAKEN

TRS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0006 Ci (600 µCi or 22.2 MBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0001 Ci (100 µCi or 3.7 MBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

TRS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0006 Ci (600 µCi or 22.2 MBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Source Number: 2

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0001 Ci (100 µCi or 3.7 MBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Device Number: 2

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

TRS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Device Number: 2

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

EQP

30.50(b)(4)(i) - old - (SUPERSEDED) UNPLANNED FIRE OR EXPLOSION DAMAGING ANY LICENSED MATERIAL OR ANY DEVICE, CONTAINER, OR EQUIPMENT CONTAINING LICENSED MATERIAL IN EXCESS OF 5 TIMES THE LOWEST ALI SPECIFIED IN APPENDIX B OF PART 20.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

TRS

71.5 - Transportation of licensed material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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PN404015	07/01/2004	PRELIMINARY NOTIFICATION
- ML041820330	07/01/2004	Same as PN404015
ML042930687	11/08/2004	LICENSEE REPORT
LTR041018	11/10/2004	REGION REPORT
DOT2004071583	12/14/2004	OTHER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources. One source (serial #DSN39) contained Am-Be with an activity of 684.5 GBq (18.5 Ci) and the other source (serial #2710GW) contained Cs-137 with an activity of 55.5 GBq (1.5 Ci). The Halliburton well logging tool became snagged near the bottom of the well, at 14,300 feet, and broke loose from the cable at the designed weak point. The well is located in Val Verde County, 42 mile South of Sonora, Texas, and was operated by Newfield Exploration. The licensee decided to attempt recovery, but the fishing attempts were unsuccessful. The source became stuck on 5/11/2004 and was abandoned on 5/13/2004. The well was cemented to 14,100 feet with red-dyed cement and topped with an inverted drill bit. A wellhead placard has been ordered for installation.

Event Date: 05/11/2004

Date Reported to Agreement State: 05/12/2004

Discovery Date: 05/11/2004

Date Reported to NRC: 06/16/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: VAL VERDE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18.5 Ci (684.5 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: DSN-39

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.5 Ci (55.5 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 2710GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: HALLIBURTON

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

TX-I-8131

06/29/2004

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source (serial #71-1-216) that contained Am-Be with an activity of 185 GBq (5 Ci). The Titan well logging tool became snagged near the bottom of the well, at 10,432 feet, and broke loose from the cable at the designed weak point. The well is located in Jacinto Port, Paris County, Texas. The licensee decided to attempt recovery, but the fishing attempts were unsuccessful. The source became stuck on 5/31/2004 and was abandoned on 6/1/2004. The well was cemented to 10,315 feet with red-dyed cement. A bridge plug was set at the new depth of 10,259 feet. A wellhead placard has been ordered for installation.

Event Date: 05/31/2004

Date Reported to Agreement State: 05/31/2004

Discovery Date: 05/31/2004

Date Reported to NRC: 06/16/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L05478

Name: PERF-O-LOG, INC.

NRC Docket Number: NA

City: IOWA COLONY

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77583

Site of Event:

Site Name: PARIS COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 71-1-216

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: TITAN

Serial Number: 814

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8125	06/28/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a transport Type A Container holding a Gammatron Am-Be source (model NSR-U [AN-HP], serial #U-004) with an activity of 377.4 GBq (10.2 Ci) and an AEA Technology Cs-137 source (model CDC.CY3, serial #A2321) with an activity of 65.9 GBq (1.78 Ci) fell off the back of a truck during acceleration at a traffic light. City Health and HAZMAT responded to the site. A Texas Department of Health inspector also responded to the site and determined that the licensee failed to properly brace and block the load. The sources were undamaged. The container had been restrained with transport straps that were too light for the weight of the container. The licensee contracted with a local wrecker service to reload the container onto the truck. The loading configuration has been changed to prevent a recurrence.

Event Date: 10/23/2003

Date Reported to Agreement State: 11/03/2003

Discovery Date: 10/23/2003

Date Reported to NRC: 04/08/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: NR

Name: NUCLEAR SOURCES AND SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77087

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

PROCEDURE PROBLEM / DEFECTIVE OR INADEQUATE PROCEDURE

Old Cause: INADEQUATE PROCEDURE

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 10.2 Ci (377.4 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: U-004

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.78 Ci (65.86 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: A2321

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

GREATER THAN 10 CI - NOT H-3

MATERIAL LOST AND FOUND

References:

Reference Number: **Entry Date:** **Retraction Date:** **Type of Report:**

TX-I-8076

04/20/2004

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a well-logging source (Gammatron model AN-HP, serial #T-949) that contained Am-Be with an activity of 185 GBq (5 Ci) became stuck at a depth of 3,622 feet. The well is located at the South Kilgore Unit #73, Rusk County, Texas, East Oilfield. The well operator decided to attempt recovery and hired three recovery firms to attempt various recoveries of the source. The fishing attempts were unsuccessful. The firm decided to abandon the source on 3/29/2004. The well was cemented to 3,240 feet with red-dyed cement. A wellhead placard has been ordered for installation on the wellhead.

Event Date: 01/29/2004

Date Reported to Agreement State: 01/29/2004

Discovery Date: 01/29/2004

Date Reported to NRC: 03/31/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04690-001

Name: WREN OILFIELD SERVICES, INC.

NRC Docket Number: NA

City: WHITE OAK

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 75693

Site of Event:

Site Name: RUSK COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 5 Ci (185 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: T-949

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR040331	04/12/2004		AGREEMENT STATE LETTER
TX-I-8112	04/12/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source. The source (Schlumberger model GSR-J, serial #A5097) contained 62.9 GBq (1.7 Ci) of Cs-137. The well is located at the Jonah wellfield in Sublette County, Wyoming, and is operated by BP America Production Company. The source became stuck on 2/26/2004 and was abandoned on 3/8/2004. The source is located at a measured depth of 8,240 feet. The total measured depth of the well is 10,871 feet. The measured depth of the top of the cement abandonment plug is 5,981 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 02/26/2004

Date Reported to Agreement State:

Discovery Date: 02/26/2004

Date Reported to NRC: 03/19/2004

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUBLETTE COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SCHLUMBERGER

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A5097

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML040830295	04/08/2004		LICENSEE REPORT
LTR040304	05/10/2004		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 185 GBq (5 Ci) Am-Be source (serial #NLS-698) and a 74 GBq (2 Ci) Cs-137 source (serial #DLS-2527). The well is located at South Pelto Block 10 in federal waters offshore Louisiana and is operated by Apache Corporation. The sources became stuck on 9/28/2003 and were abandoned on 10/1/2003. The Am-Be source is located at a measured depth of 11,912 feet (vertical depth of 11,189 feet). The Cs-137 source is located at a measured depth of 11,920 feet (vertical depth of 11,194 feet). The total measured depth of the well is 14,475 feet (vertical depth of 12,645 feet). The measured depth of the top of the cement abandonment plug is 11,078 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 09/28/2003

Date Reported to Agreement State:

Discovery Date: 09/28/2003

Date Reported to NRC: 09/29/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH PELTO BLOCK 10

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NLS-698

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: DLS-2527

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR031020	02/18/2004		LICENSEE REPORT
LTR031130	02/18/2004		REGION REPORT

Narrative:

The licensee reported that a logging engineer (trainee) dropped a 48.1 GBq (1.3 Ci) Cs-137 source (AEA Technology model CDC.CY3, serial #GSRJ-A1925) while transferring the source from a logging tool to a shielded transport container. The source fell to the deck of the oil rig, where it remained unnoticed until an oil rig worker touched the source with his fingertips, thinking it was the base of a light bulb. A licensee crewmember told the worker to leave the source on the deck, where it was then recovered with a source handling tool. The worker's exposure was determined to be 0.4 mSv (40 mrem) to the hand and 0.15 mSv (mrem) to the whole body. Inadequate survey procedures, supervision, and training may have been contributing factors. The trainee received additional training on procedures and was counseled. Procedures were modified to not allow members of the public onto the rig until after surveys have been completed.

Event Date: 01/10/2004

Date Reported to Agreement State: 01/10/2004

Discovery Date: 01/10/2004

Date Reported to NRC: 01/13/2004

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-0144-15

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: BAKERSFIELD

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 93308

Site of Event:

Site Name: OILDALE

State: CALIFORNIA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

PERSONNEL RECEIVED ADDITIONAL TRAINING

PROCEDURE MODIFIED

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.3 Ci (48.1 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: GSRJ-A1925

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40445	01/16/2004		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
CA-XCA471	05/03/2004		AGREEMENT STATE EVENT REPORT
LTR040429	05/03/2004		AGREEMENT STATE LETTER
LTR040902	09/08/2004		AGREEMENT STATE LETTER
LTR091123	11/25/2009		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 370 GBq (10 Ci) Am-Be source (model NSR-U, serial #N309) and a 62.9 GBq (1.7 Ci) Cs-137 source (model GSR-Z, serial #A2032). The well is located at Mississippi Canyon 822 #6 in federal waters offshore Louisiana and is operated by BP Exploration and Production. The sources became stuck on 5/21/2003 and were declared irretrievable on 10/30/2003. The Am-Be source is located at a measured depth of 24,765 feet. The Cs-137 source is located at a measured depth of 24,767 feet. The total measured depth of the well is 24,910 feet. The measured depth of the top of the cement abandonment plug is 21,000 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 05/21/2003

Date Reported to Agreement State:

Discovery Date: 05/21/2003

Date Reported to NRC: 10/30/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: MISSISSIPPI CANYON 822

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: N309

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SCHLUMBERGER

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2032

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML033290523	12/15/2003		LICENSEE REPORT
LTR031031	01/30/2004		REGION REPORT

Narrative:

The licensee reported that a well logging string became stuck in a customer's well. The well was owned by Newfield Exploration Company and was located in Valverde County, Texas. The string held three sources including a Nuclear Sources and Services, Incorporated (NSSI - Gammatron, Incorporated) Am-Be source (model AN-HP, serial #29042) with an activity of 166.5 GBq (4.5 Ci), an AEA Technology Cs-137 source (model CDC.CY4, serial 2907GW) with an activity of 74.0 GBq (2 Ci), and a Gammatron, Incorporated, Cs-137 source (model GT-GHP, serial #Z-194) with an activity of 29.6 GBq (0.8 Ci). After several fishing attempts without success, it was decided to abandon the sources downhole. The sources were immobilized in place at 14,433 feet and the well has an original total depth of 14,500 feet. The sources are concreted in place and have had a deflection device placed to prevent drilling in the same hole. A plaque has been ordered for installation on the wellhead.

Event Date: 11/30/2003

Date Reported to Agreement State: 12/01/2003

Discovery Date: 11/30/2003

Date Reported to NRC: 12/01/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446-060

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: VALVERDE COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 4.5 Ci (166.5 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: 29042

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 2907GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.8 Ci (800 mCi or 29.6 GBq)
Model Number:	GT-GHP	IAEA Category:	4
Serial Number:	Z-194		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40365	12/04/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-8079	12/04/2003		AGREEMENT STATE EVENT REPORT
TX-I-8079A	01/06/2004		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a Computalog well logging tool, containing an Amersham Cs-137 source (model CDC.CY4, serial #2875GW) with an activity of 74 GBq (2 Ci) and an Amersham Am-Be source (model AMN.CY6, serial #280NN) with an activity of 538.4 GBq (14.55 Ci), was abandoned down hole. The well was located at the Gillis-English Bayou. The neutron source is at a depth of 10,028 feet and the density source is at a depth of 10,039 feet. Many attempts were made to retrieve the tool/sources. The decision was made on 4/27/2003 to abandon attempts of retrieving the well logging tool. A whipstock was put into place on 4/27/2003.

Event Date: 04/20/2003

Date Reported to Agreement State: 04/28/2003

Discovery Date: 04/20/2003

Date Reported to NRC: 11/14/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: COMPUTALOG WIRELINE SERVICES, INC.

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GILLIS-ENGLISH BAYOU

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 14.55 Ci (538.35 GBq)

Model Number: AMN.CY6

IAEA Category: 3

Serial Number: 280NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: 2875GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: COMPUTALOG

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

LA030004

11/25/2003

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of five irretrievable well logging sources: two 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #9221NK and 9222NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2917GW), a 55.5 kBq (1.5 µCi) Cs-137 source (Isotope Products model 3024, serial #NN-987), and a 18.5 kBq (0.5 µCi) Cs-137 source (Isotope Products model 3024, serial #QQ-427). The well is located at Ewing Banks Block 873 and is operated by Marathon Oil Company. The sources became stuck on 4/30/2002 and were declared irretrievable on 5/1/2001. The Am-Be sources are located at a measured depth of 11,830 feet (vertical depth of 10,419 feet). The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 11,846 feet (vertical depth of 10,431 feet). The total measured depth of the well is 11,971 feet (vertical depth of 10,528 feet). The measured depth of the cement abandonment plug is from 7,825 feet to 8,195 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 04/30/2002

Date Reported to Agreement State:

Discovery Date: 04/30/2002

Date Reported to NRC: 05/01/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: EWING BANKS BLOCK 873

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 9221NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 9222NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	2917GW		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000015 Ci (1.5 μ Ci or 55.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-987		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-427		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML021570595	11/11/2003		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY1, serial #4091NK-1) and a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #3102GW). The well is located at High Island Block 140 in federal waters offshore Louisiana and is operated by Devon Energy. The sources became stuck on 8/3/2003 and were declared irretrievable on 8/5/2003. Numerous retrieval attempts were unsuccessful. The Am-Be source is located at a measured depth of 12,068 feet (vertical depth of 10,503 feet). The Cs-137 source is located at a measured depth of 12,080 feet (vertical depth of 10,512 feet). The total measured depth of the well is 12,935 feet (vertical depth of 11,176 feet). The measured depth of the cement abandonment plug is from 9,036 feet to 10,336 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 08/03/2003

Date Reported to Agreement State:

Discovery Date: 08/03/2003

Date Reported to NRC: 08/05/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HIGH ISLAND BLOCK 140

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 4091NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 3102GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML032800603	10/27/2003		LICENSEE REPORT
LTR030930	11/13/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-014) and a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2114GW). The well is located at South Pelto Block 23 in federal waters offshore Louisiana and is operated by Stone Energy Corporation of Lafayette, Louisiana. The sources became stuck on 7/27/2003 and were declared irretrievable on 8/10/2003. The Am-Be source is located at a measured depth of 15,364 feet (vertical depth of 15,107 feet). The Cs-137 source is located at a measured depth of 15,371 feet (vertical depth of 15,113 feet). The total measured depth of the well is 17,141 feet (vertical depth of 16,556 feet). The measured depth of the top of the cement abandonment plug is 14,718 feet (vertical depth of 14,575 feet). A permanent warning plaque will be placed on the wellhead.

Event Date: 07/27/2003

Date Reported to Agreement State:

Discovery Date: 07/27/2003

Date Reported to NRC: 08/11/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: SOUTH PELTO BLOCK 23

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-014

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2114GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR030819	10/15/2003		LICENSEE REPORT
LTR030831	10/15/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 370 GBq (10 Ci) Am-Be source (model NSR-T, serial #C430) and a 63 GBq (1.7 Ci) Cs-137 source (model GSR-Z, serial #1101). The well is located at Garden Banks Block 341 in federal waters offshore Louisiana and is operated by Shell Offshore, Incorporated. The sources became stuck on 4/26/2003. No recovery attempts were made due to the well control situation. After the sources became stuck, an increase in pressure indicated that the well was collapsing around the drill string. It was decided to abandon the well while there was still some limited circulation rather than risk the complete loss of circulation. If circulation was lost, the licensee would have been unable to pump cement into the well to stabilize the sources. The Am-Be source is located at a measured depth of 19,901 feet. The Cs-137 source is located at a measured depth of 19,906 feet. The total measured depth of the well is 20,007 feet. The measured depth of the top of the cement abandonment plug is 19,653 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 04/26/2003

Date Reported to Agreement State:

Discovery Date: 04/26/2003

Date Reported to NRC: 04/26/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GARDEN BANKS BLOCK 341

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NSR-T

IAEA Category: 3

Serial Number: C430

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: 1101

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR030513	10/14/2003		LICENSEE REPORT
LTR030731	10/14/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 592 GBq (16 Ci) Am-Be source (model NSR-F, serial #2312) and a 63 GBq (1.7 Ci) Cs-137 source (model GSR-J, serial #1922). The well is located at Eugene Island Block 111 in federal waters offshore Louisiana and is operated by Newfield Exploration. The sources became stuck on 4/21/2003 and were declared irretrievable on 5/7/2003. The Am-Be source is located at a measured depth of 11,710 feet. The Cs-137 source is located at a measured depth of 11,723 feet. The total measured depth of the well is 12,437 feet. The measured depth of the top of the cement abandonment plug is 5,489 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 04/21/2003

Date Reported to Agreement State:

Discovery Date: 04/21/2003

Date Reported to NRC: 05/07/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EUGENE ISLAND BLOCK 111

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: 2312

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: 1922

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR030514	10/14/2003		LICENSEE REPORT
LTR030731	10/14/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source (serial #GSR-J A1993) that contained Cs-137 with an activity of 62.9 GBq (1.7 Ci). During attempts to recover the logging tool, the tool broke and only 18 feet of the tool was recovered. Attempts to recover the remaining 22 feet of the logging tool and source proved unsuccessful. The well total depth was listed as 12,144 feet. The tool and source were believed to be at the bottom of the well. The proposed abandonment procedure was discussed with the Mississippi Department of Radiological Health Director and final approval was given. The well is located at Sandy Hook Field in Marion County, Mississippi, and is operated by Devon Energy Corporation. Approximately 62 feet of production tubing filled with red-dyed cement and a 1 foot angled stainless steel deflection device will be placed above the abandoned tool from 12,122 feet to 12,058 feet. The annulus will be filled with cement from approximately 12,122 feet to 8,000 feet. An appropriately worded warning plaque will be attached to the well.

Event Date: 09/17/2003

Date Reported to Agreement State: 09/17/2003

Discovery Date: 09/17/2003

Date Reported to NRC: 09/17/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: MS-463-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 1

Zip Code: 77478

Site of Event:

Site Name: MARION COUNTY

State: MISSISSIPPI

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: GSR-J A1993

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
MS030001	10/02/2003		AGREEMENT STATE EVENT REPORT
MS030001A	10/02/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a Gulf Nuclear Am-Be source (model 71-1, serial #71-1-448B) containing an activity of 185 GBq (5 Ci) was determined to be leaking during a routine leak test on 9/26/2003. The removable contamination was 3.0 kBq (0.081 µCi or 180,229 dpm). The source was transported during September 2003 from the licensee's Edinburg, Texas, site to their Fort Worth, Texas, site. The contamination was confined to the inside of the transport container and the source housing. A second source that had been stored as a companion in the same downhole storage in Edinburg also had a small amount of removable contamination on it (399 dpm, which is below the 11,000 dpm limit). The licensee will check the Edinburg downhole storage site for contamination. The storage facility was taken out of service pending the completion of surveys. The downhole storage was determined to be contaminated with a maximum concentration of 1.89 Bq/gram (51 pCi/gram). A secondary hole had contamination of 0.085 Bq/gram (2.3 pCi/gram). The contaminated soil was removed and barreled for disposal by NSSI located in Houston, Texas. Clean soil was used to fill the entire downhole storage facility. A new downhole storage facility was relocated on the licensee's site. The leaking source was removed from the site to the NSSI facility. NSSI decontaminated the source and encapsulated it for disposal through the DOE's Off-Site Source Recovery Project at Los Alamos, New Mexico.

Event Date: 09/26/2003

Date Reported to Agreement State: 09/26/2003

Discovery Date: 09/26/2003

Date Reported to NRC: 09/26/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L04286

Name: COMPUTALOG

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76126

Site of Event:

Site Name: EDINBURG

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

Event Cause:

EQP

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Old Cause: DEFECTIVE OR FAILED PARTS

LKS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Old Cause: DEFECTIVE OR FAILED PARTS

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 3

LKS

IAEA Aggregate Category: 3

Corrective Actions Information:

EQP

MATERIAL DISPOSED OF AS WASTE

LKS

MATERIAL DISPOSED OF AS WASTE

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GULF NUCLEAR	Activity:	5 Ci (185 GBq)
Model Number:	71-1	IAEA Category:	3
Serial Number:	71-1-448B		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GULF NUCLEAR	Activity:	5 Ci (185 GBq)
Model Number:	71-1	IAEA Category:	3
Serial Number:	71-1-448B	Leak Test Result:	0.081 µCi (81 nCi or 2.997 kBq)

Reporting Requirements:

EQP

30.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR FAILS TO FUNCTION.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LKS

39.35(d)(1) - Well logging source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN40201	10/01/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR030926	10/01/2003		LICENSEE REPORT
TX-I-8059	10/01/2003		AGREEMENT STATE EVENT REPORT
LTR031202	12/02/2003		AGREEMENT STATE LETTER
LTR040607	06/07/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources: a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #440NN), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2638GW), a 55.5 kBq (1.5 µCi) Cs-137 source (Isotope Products model 3024, serial #NN-726), and a 18.5 kBq (0.5 µCi) Cs-137 source (Isotope Products model 3024, serial #QQ-965). The well is located at Garden Banks Block 22 and is operated by Kerr McGee Oil and Gas Corporation. The sources became stuck on 8/21/2003 and were declared irretrievable on 8/22/2003. The Am-Be source is located at a measured depth of 6,832 feet (vertical depth of 5,903 feet). The 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 6,842 feet (vertical depth of 5,909 feet). The total measured depth of the well is 6,960 feet (vertical depth of 5,978 feet). The measured depth of the cement abandonment plug is from 5,345 feet to 6,520 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 08/21/2003

Date Reported to Agreement State:

Discovery Date: 08/21/2003

Date Reported to NRC: 08/22/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: GARDEN BANKS BLOCK 22

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: CDC.CY17

IAEA Category: 3

Serial Number: 440NN

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2638

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000015 Ci (1.5 μ Ci or 55.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-726		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-965		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML032590745	09/29/2003		LICENSEE REPORT
LTR030908	02/18/2004		LICENSEE REPORT
LTR031231	02/18/2004		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located in Hidalgo County, Texas, and is a Kerr McGee Lease. The first source contained 592 GBq (16 Ci) of Am-Be (Schlumberger model NSR-F, serial #2355) and is located at a measured depth of 11,742 feet. The second source contained 62.9 GBq (1.7 Ci) of Cs-137 (AEA Technology model GSJ, serial #180) and is located at a measured depth of 11,755 feet. The source will be cemented in place by 200 feet of red-dyed cement with a whipstock placed as a deterrent to future drilling. A warning plaque will be mounted on the wellhead.

Event Date: 09/22/2003

Date Reported to Agreement State: 09/22/2003

Discovery Date: 09/22/2003

Date Reported to NRC: 09/22/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: HIDALGO COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: 2355

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSJ

IAEA Category: 4

Serial Number: 180

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-8056	09/23/2003		AGREEMENT STATE EVENT REPORT
EN40188	09/25/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR040607	06/07/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 185 GBq (5 Ci) Am-Be source (serial #NLS-9985) and a 74 GBq (2 Ci) Cs-137 source (serial #DLS-1229). The well is located at Grand Isle Block 39 in federal waters offshore Louisiana and is operated by BP. The sources became stuck on 6/28/2003 and were declared irretrievable on 7/3/2003. The Am-Be source is located at a measured depth of 15,268.8 feet (vertical depth of 11,724.2 feet). The Cs-137 source is located at a measured depth of 15,280.3 feet (vertical depth of 11,729.3 feet). The total measured depth of the well is 15,826 feet (vertical depth of 11,971 feet). The measured depth of the top of the cement abandonment plug is 14,601 feet (vertical depth of 11,400 feet). A permanent warning plaque will be placed on the wellhead.

Event Date: 06/28/2003

Date Reported to Agreement State:

Discovery Date: 06/28/2003

Date Reported to NRC: 07/03/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: GRAND ISLE BLOCK 39

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NLS-9985

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: DLS-1229

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML032060403	08/14/2003		LICENSEE REPORT
LTR030731	10/14/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 684.5 GBq (18.5 Ci) Am-Be source (Amersham model AMN.CY1, serial #DSN-321) and a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2667GW). The well is located at South Timbalier in federal waters offshore Louisiana and is operated by Chevron Texaco of New Orleans, Louisiana. The sources became stuck and were declared irretrievable on 6/5/2003. Numerous retrieval attempts were unsuccessful. The Am-Be source is located at a measured depth of 15,889 feet (vertical depth of 15,466 feet). The Cs-137 source is located at a measured depth of 15,909 feet (vertical depth of 15,486 feet). The total measured depth of the well is 16,626 feet (vertical depth of 16,201 feet). The measured depth of the cement abandonment plug is from 15,806 feet to 13,890 feet. A permanent warning plaque will be placed on the wellhead.

Event Date: 06/05/2003

Date Reported to Agreement State:

Discovery Date: 06/05/2003

Date Reported to NRC: 06/05/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH TIMBALIER

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 18.5 Ci (684.5 GBq)

Model Number: AMN.CY1

IAEA Category: 2

Serial Number: DSN-321

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2667GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML031780307	07/22/2003		LICENSEE REPORT
LTR030627	10/14/2003		LICENSEE REPORT
LTR030731	10/14/2003		REGION REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources, including a 370 GBq (10 Ci) Am-Be sources (Schlumberger model NSR-M, serial #A145) and a 62.9 GBq (1.7 Ci) Cs-137 source (Schlumberger model GSR-Z, serial #A2091). Multiple recovery attempts were made. The well, owned by Shell Offshore Incorporated, is located offshore Louisiana at Mississippi Canyon Block 194. The source depths are 14,892 MD and 14,896 MD feet. The measured depth of the well is 17,976 feet (vertical depth 10,662 feet). A cement plug was placed above the sources from 13,787 to 13,287 feet and a warning plaque was attached to the wellhead.

Event Date: 04/27/2003

Date Reported to Agreement State:

Discovery Date: 04/27/2003

Date Reported to NRC: 05/01/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: MISSISSIPPI CANYON 194

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 10 Ci (370 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: A145

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: SCHLUMBERGER

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2091

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: SCHLUMBERGER

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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LTR030513	07/17/2003		LICENSEE REPORT
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Narrative:

The licensee reported the loss of a box containing a Sc-46 source with an activity of 1.48 GBq (40 mCi). The licensee stated that one of four boxes in a shipment of well logging sources, sent from their facility via Federal Express (airbill #791397943907) to Elite Air Freight in Houston, Texas, was missing. The shipment was enroute to Nigeria and was held in Houston pending resolution of the missing source. The missing box containing the Sc-46 source was located (recovered) on 6/7/2003 at the Houston-Hobby Satellite facility in the Dangerous Goods area with no indication of damage or tampering. Federal Express will assure that the package is delivered to the recipient on 6/9/2003. This event occurred due to an administrative oversight; the wrong airbill was updated showing delivery. This event is being tracked by the State of New Mexico as #NM-03-04.

Event Date: 06/02/2003

Date Reported to Agreement State: 06/05/2003

Discovery Date: 06/05/2003

Date Reported to NRC: 06/05/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: NM-TA-172-21

Name: SPECTRATEK SERVICES

NRC Docket Number: NA

City: ALBUQUERQUE

NRC Program Code: NA

State: NEW MEXICO

NRC Region: 4

Zip Code: 87107

Site of Event:

Site Name: ALBUQUERQUE

State: NEW MEXICO

Additional Involved Party:

License Number: NON-LICENSEE

Name: FEDERAL EXPRESS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: SC-46

Manufacturer: NR

Activity: 0.04 Ci (40 mCi or 1.48 GBq)

Model Number: NR

IAEA Category: NA

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: CONTAINER, SHIPPING

Model Number: NA

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39904	06/10/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR040727	07/27/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #9245NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2894GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #FF-761 and FF-767). The well is located offshore at Eugene Island Block 24 and is operated by Union Oil of California. The sources became stuck on 2/25/2003 and were declared irretrievable on 2/28/2003. The Am-Be source is located at a measured depth of 14,925 feet (vertical depth of 14,184 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 14,935 feet (vertical depth of 14,189 feet). The total measured depth of the well is 15,033 feet (vertical depth of 14,239 feet). The measured depth of the cement abandonment plug is from 13,035 feet to 12,735 feet. A permanent warning plaque will be placed on the well head.

Event Date: 02/25/2003

Date Reported to Agreement State:

Discovery Date: 02/25/2003

Date Reported to NRC: 02/28/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: EUGENE ISLAND BLOCK 24

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-241

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 9245NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2894GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	FF-761		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	FF-767		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML030780515	05/05/2003		LICENSEE REPORT

Narrative:

The licensee reported that a Haliburton NWA well logging tool containing four radioactive sources was lost down hole in Terrebonne Parish, Louisiana. The sources included an Amersham Am-Be source (model CDC.CY17, serial #1610NN) with an activity of 148 GBq (4 Ci), an Amersham Cs-137 source (model CDC.CY13, serial #2884GW) with an activity of 74 GBq (2 Ci), and two Isotope Products Laboratory Cs-137 sources (model 3024, serial #XX-775 and XX-782) with an activity of 18.5 kBq (0.5 µCi) each. Attempts were made until 2/20/2003 to retrieve the tool and sources, but they were unsuccessful. The well was backfilled with 500 feet of cement from a depth of 11,489 to 10,940 feet. A warning plaque will be made and mounted on the well head.

Event Date:	02/14/2003	Date Reported to Agreement State:	03/06/2003
Discovery Date:	02/14/2003	Date Reported to NRC:	03/06/2003

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	LA-2353-L01	Name:	HALLIBURTON ENERGY SERVICES
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77032

Site of Event:

Site Name:	TERREBONNE PARISH	State:	LOUISIANA
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	AMERSHAM	Activity:	4 Ci (148 GBq)
Model Number:	CDC.CY17	IAEA Category:	3
Serial Number:	1610NN		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	2884GW		

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	XX-782		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	XX-775		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	HALLIBURTON	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39642	03/12/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LA030001	06/19/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a Gammatron Am-Be source (serial #T-837) with an activity of 111 GBq (3 Ci) was lost down hole at a depth of 6,600 feet. Attempts were made to retrieve the source, but they were unsuccessful. On 2/19/2003, the licensee set a vented bridge plug at 5,335 feet and low permeability red cement was dumped to a depth of 5,300 feet. After pressure testing the plug, the well was perforated and placed back into production. A placard is being made to place on the well jacket.

Event Date: 02/17/2003

Date Reported to Agreement State: 02/18/2003

Discovery Date: 02/17/2003

Date Reported to NRC: 03/06/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4543-L01

Name: HARTFIELD TECHNICAL SERVICES

NRC Docket Number: NA

City: LAFAYETTE

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: OFFSHORE

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 3 Ci (111 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: T-837

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: COMPROBE CORP.

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39641	03/12/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LA030002	11/25/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a well logging tool (model FlexStak) containing a Cs-137 source (serial #VL-536) with an activity of 4.55 GBq (123 mCi) was abandoned down hole. The line pulled out of the rope socket and fell to the bottom of the cavern, a depth of approximately 4,000 feet. The licensee was performing analysis of the amount of petroleum in a Strategic Petroleum Reserve salt dome in Hackberry, Louisiana. Attempts were not made to retrieve the tool and source because the dome is so wide at the bottom. There were also other lost tools, pipe, and material at the bottom of the dome. The source was abandoned in accordance with State procedures.

Event Date: 03/05/2003

Date Reported to Agreement State: 03/06/2003

Discovery Date: 03/05/2003

Date Reported to NRC: 03/06/2003

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-4413-L01

Name: COMPUTALOG WIRELINE SERVICES, INC.

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: HACKBERRY

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.123 Ci (123 mCi or 4.551 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: VL-536

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: FLEXSTAK

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39640	03/12/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR030509	05/09/2003		AGREEMENT STATE LETTER
LA030003	11/25/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources, including a 666 GBq (18 Ci) Am-Be source (Gammatron model AN-HP), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY4), and a 29.6 kBq (0.8 µCi) Cs-137 source (Gammatron model GT-GHP). Multiple recovery attempts were made from 12/26/2002 to 1/7/2003. The well, owned by Forest Oil Corporation, is located in Sweetwater County, Wyoming. The measured source depth is 8,240 feet. The measured depth of the well is 10,311 feet. A cement plug was placed above the sources to a depth of 4,560 feet and a warning plaque will be attached to the well.

Event Date: 12/25/2002

Date Reported to Agreement State:

Discovery Date: 12/25/2002

Date Reported to NRC: 01/07/2003

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-02964-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: 03006402

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77267

Site of Event:

Site Name: SWEETWATER COUNTY

State: WYOMING

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18 Ci (666 GBq)

Model Number: AN-HP

IAEA Category: 2

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY4

IAEA Category: 4

Serial Number: NR

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML030350028	02/27/2003		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources, including two 592 GBq (16 Ci) Am-Be sources (Schlumberger model NSR-F, serial #A1342 and G5012) and a 62.9 GBq (1.7 Ci) Cs-137 source (Schlumberger model GSR-J, serial #A2023). Multiple recovery attempts were made from 12/23 to 12/29/2002. The well, owned by Westport Resources Corporation, is located offshore Louisiana at West Cameron Block 180. The source depths are between 12,611 feet and 12,636 feet. The measured depth of the well is 12,720 feet (vertical depth 11,650 feet). A cement plug was placed above the sources to a depth of 12,014 feet and a warning plaque will be attached to the well.

Event Date: 12/23/2002

Date Reported to Agreement State:

Discovery Date: 12/23/2002

Date Reported to NRC: 12/29/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: WEST CAMERON BLOCK 180

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: G5012

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: SCHLUMBERGER

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A1342

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	SCHLUMBERGER	Activity:	1.7 Ci (62.9 GBq)
Model Number:	GSR-J	IAEA Category:	4
Serial Number:	A2023		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML030300386	02/14/2003		LICENSEE REPORT
LTR030115	04/09/2003		LICENSEE REPORT

Narrative:

The licensee reported that a well logging source assembly, which contained a Cs-137 source (manufactured by Amersham, model GSR-J, serial #A1851) with an activity of 62.9 GBq (1.7 Ci) and an Am-Be source (manufactured by Gammatron, model NSR-F, serial #A1163) with an activity of 592 GBq (16 Ci), was lost downhole at a gas well near Rifle, Colorado. The sources were stuck at approximately 8,000 feet and efforts to retrieve the sources were unsuccessful. The licensee took the necessary measures to deflect any future attempt to drill in the same location and will place a stainless steel warning placard at the surface. The licensee still plans to use the well for production of natural gas. The sources were last leak tested on 12/21/2002 with no signs of leakage.

Event Date:	12/25/2002	Date Reported to Agreement State:	12/25/2002
Discovery Date:	12/25/2002	Date Reported to NRC:	12/26/2002

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	CO-039-01	Name:	SCHLUMBERGER TECHNOLOGIES CORP.
NRC Docket Number:	NA	City:	RIFLE
NRC Program Code:	NA	State:	COLORADO
NRC Region:	4	Zip Code:	81650

Site of Event:

Site Name:	RIFLE	State:	COLORADO
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	N
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	1.7 Ci (62.9 GBq)
Model Number:	GSR-J	IAEA Category:	4
Serial Number:	A1851		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	GAMMATRON	Activity:	16 Ci (592 GBq)
Model Number:	NSR-F	IAEA Category:	3
Serial Number:	A1163		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: SCHLUMBERGER

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39474	01/02/2003		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
CO02-I03-12	02/03/2003		AGREEMENT STATE EVENT REPORT
CO02-I03-12A	03/18/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported two irretrievable Cs-137 well logging sources. One source, manufactured by Amersham (model CDC.CY4, serial #2908GW), contained an activity of 74 GBq (2 Ci) and the other source, manufactured by Gammatron (model GT-GHP, serial #Z252), contained an activity of 29.6 kBq (0.8 µCi). The well is owned by Exxon-Mobil and is located in Terrell County, Texas. The approximate depth of the sources is 14,000 feet. The first attempt at recovery was partially successful, as the neutron source was recovered. Repeated attempts to recover the lower section of the density instrument containing the two Cs-137 sources were unsuccessful. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulation for Control of Radiation.

Event Date:	10/05/2002	Date Reported to Agreement State:	10/07/2002
Discovery Date:	10/05/2002	Date Reported to NRC:	10/09/2002

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L00446	Name:	BAKER ATLAS
NRC Docket Number:	NA	City:	HOUSTON
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77073

Site of Event:

Site Name:	TERRELL COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY4	IAEA Category:	4
Serial Number:	2908GW		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	GAMMATRON	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	GT-GHP	IAEA Category:	5
Serial Number:	Z252		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7936	10/17/2002		AGREEMENT STATE EVENT REPORT
TX-I-7936A	12/04/2002		AGREEMENT STATE EVENT REPORT
LTR021218	12/18/2002		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources that include a 62.9 GBq (1.7 Ci) Cs-137 source (model GSR-Z, serial #2009) and a 592 GBq (16 Ci) Am-Be source (model NSR-L, serial #3068). Multiple recovery attempts were made to retrieve the tool and sources from the well. The licensee was authorized to abandon the tool and sources on 10/12/2002. The well is located in Cameron, Louisiana. The approximate depth of the tool is 10,822 feet. A cement plug was placed above the tool to a depth of 10,640 feet and an upside down drill bit was placed at the top of the plug as a deflection device.

Event Date: 10/12/2002
Discovery Date: 10/12/2002

Date Reported to Agreement State: 10/12/2002
Date Reported to NRC: 10/14/2002

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: LA-2783-L01
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: CAMERON

State: LOUISIANA

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NSR-L
Serial Number: 3068

Radionuclide: AM-BE
Activity: 16 Ci (592 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: SCHLUMBERGER
Model Number: GSR-Z
Serial Number: 2009

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN39284	10/17/2002		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LA020013	11/25/2002		AGREEMENT STATE EVENT REPORT
LA020013A	01/06/2003		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee (dba Schlumberger Well Services) reported that members of the public received radiation exposures of greater than 1 mSv (100 mrem) after an engineer left an Amersham Cs-137 well logging source (model CDC.CY3, serial #874) with an activity of 51.8 GBq (1.4 Ci) on a rig floor for approximately 16 hours. After completing a logging operation, the engineer pulled the source from the logging tool with a handling tool and cleaned the mud from it. The source was then inserted into a shield, but the engineer did not properly disengage the source from the handling tool. The source was inadvertently removed from the shield when the tool was withdrawn, and subsequently dropped to the rig floor. The engineer did not perform a survey to confirm the source was in the shield. The logging crew left the rig and discovered the source was missing from the shield approximately 12 hours later. The event occurred at the L.C. Weatherby East Gas Unit #2 well site near Edinburg, Texas. The dose rate on the rig floor was in excess of 0.2 mSv/hour (20 mrem/hour). At least five and possibly seven individual members of the public received doses greater than 1 mSv (100 mrem), with the maximum dose calculated at 6.13 mSv (613 mrem). Additionally, nine other individuals received doses less than 1 mSv (100 mrem). The cause of the event was determined to be the engineer's failure to follow procedures. Corrective actions taken by the licensee included terminating the engineer's employment, modifying company procedures to require a second survey of the shield following a job, and providing additional training to all wireline employees. In addition, the licensee, along with Halliburton, and Baker, agreed to jointly produce and fund a caution/warning poster on logging sources.

Event Date: 08/29/2001

Date Reported to Agreement State: 08/30/2001

Discovery Date: 08/30/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EDINBURG

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EXP - OVEREXPOSURE

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EXP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

EXP

IAEA Aggregate Category: 4

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

EXP

PERSONNEL TERMINATED

PROCEDURE MODIFIED

PERSONNEL RECEIVED ADDITIONAL TRAINING

LAS

PERSONNEL TERMINATED

PROCEDURE MODIFIED
PERSONNEL RECEIVED ADDITIONAL TRAINING

Exposure Detail:

Person #: 1
Exposure Dose: 0.613 rem (613 mrem or 6.13 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 2
Exposure Dose: 0.448 rem (448 mrem or 4.48 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 3
Exposure Dose: 0.359 rem (359 mrem or 3.59 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 4
Exposure Dose: 0.281 rem (281 mrem or 2.81 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 5
Exposure Dose: 0.177 rem (177 mrem or 1.77 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 6
Exposure Dose: 0.159 rem (159 mrem or 1.59 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Person #: 7
Exposure Dose: 0.144 rem (144 mrem or 1.44 mSv)
Type of Dose: WHOLE BODY, NON OCCUPATIONAL
Effect:

Source of Radiation:

EXP

Source Number: 1
Source/Radioactive Material: SEALED SOURCE WELL LOGGING Radionuclide: CS-137
Manufacturer: AMERSHAM Activity: 1.4 Ci (51.8 GBq)
Model Number: CDC.CY3 IAEA Category: 4
Serial Number: 874

LAS

Source Number: 1
Source/Radioactive Material: SEALED SOURCE WELL LOGGING Radionuclide: CS-137
Manufacturer: AMERSHAM Activity: 1.4 Ci (51.8 GBq)
Model Number: CDC.CY3 IAEA Category: 4
Serial Number: 874

Reporting Requirements:

EXP

20.2203(a)(2)(iv) - Doses in excess of the limits for an individual member of the public in 20.1301.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7828	09/23/2002		AGREEMENT STATE EVENT REPORT
PN402049	10/01/2002		PRELIMINARY NOTIFICATION REPORTED FROM AN AGREEMENT STATE
- ML022630752	10/01/2002		Same as PN402049
TX-I-7828A	12/04/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well offshore Aransas County, Texas. The well is located in the Matagorda Island Block Field and is operated by Gryphon Exploration. The first source contained 592 GBq (16 Ci) of Am-Be (Gammatron, Incorporated, model NSR-F, serial #A1978) and is located at a depth of 10,464 feet. The second source contained 62.9 GBq (1.7 Ci) of Cs-137 (AEA Technologies, model GSR-J, serial #A2121) and is located at a depth of 10,478 feet. The sources were abandoned after multiple retrieval attempts were unsuccessful. The well was sealed by 1,110 feet of red-dyed cement at a top depth of 8,100 feet, where a whipstock was placed to prevent re-entry.

Event Date: 08/23/2002

Date Reported to Agreement State: 08/23/2002

Discovery Date: 08/23/2002

Date Reported to NRC: 08/23/2002

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: MATAGORDA ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A1978

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A2121

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

TX-I-7921

09/10/2002

AGREEMENT STATE EVENT REPORT

Narrative:

Maurer Technical Services reported that the licensee brought in a DuPont Merck Cs-137 source (model NER-572, serial #CS1360) that contained an activity of 3.77 GBq (102 mCi) for a leak test. The source was contained within a Mount Sopris density probe (model HPL-2375, serial #GG375) used for geophysical logging. When Maurer Technical Services opened the outer housing to perform the leak test, the inside seemed to break apart. Maurer reassembled the device, surveyed the pieces that came from the unit, and discovered they were radioactive. California Department of Health Services (DHS) was contacted and responded; performed surveys, checked personnel for contamination (none found), and roped off the area. The licensee's consultant, Occupational Services, Incorporated (OSI), determined the source was leaking in the amount of 444 Bq (0.012 µCi). OSI conducted contamination surveys of the gauge, the Maurer facility, and the licensee's pick-up truck using a Technical Associates TBM-3 survey meter with an internal GM detector (serial #1064). Contamination was identified on the outside of the container, on the outside of the pig, on the inside of the shielded source holder, on the steel probe, on the work tabletop, and in the pick-up truck bed. OSI assisted in the decontamination of the affected areas. The licensee believes the damage occurred when the probe and source fell down a 30-foot inspection hole on 5/28/2002. After a physical examination and discussion with the manufacturer, the licensee believed that the probe was damaged, but not the source. They continued using the probe and source until approximately 7/16/2002, when they began receiving inconsistent readings and thought the probe needed repair. The licensee committed to performing a timely leak test of any licensed device if a similar incident occurs in the future. The source and all contaminated items resulting from this event were packaged for disposal by OSI and the packages were picked up by Thomas Gray and Associates (California radioactive material license number 2105-30) for ultimate disposal at Barnwell, South Carolina.

Event Date: 07/26/2002

Date Reported to Agreement State: 07/26/2002

Discovery Date: 07/26/2002

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-6518-30

Name: EARTHSPECTIVES

NRC Docket Number: NA

City: IRVINE

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 92612

Site of Event:

Site Name: IRVINE

State: CALIFORNIA

Additional Involved Party:

License Number: CA-6163-30

Name: MAURER TECHNICAL SERVICES

NRC Docket Number: NA

City: LAGUNA HILLS

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: NR

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: Y

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

Event Cause:

EQP

EQUIPMENT FAILURE / MECHANICAL IMPACT

Old Cause: MECHANICAL IMPACT DAMAGING EQUIPMENT

LKS

EQUIPMENT FAILURE / MECHANICAL IMPACT

Old Cause: MECHANICAL IMPACT DAMAGING EQUIPMENT

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

LKS

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

PROCEDURE MODIFIED

MATERIAL DISPOSED OF AS WASTE

LKS

PROCEDURE MODIFIED

MATERIAL DISPOSED OF AS WASTE

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	DUPONT MERCK	Activity:	0.102 Ci (102 mCi or 3.774 GBq)
Model Number:	NER-572	IAEA Category:	4
Serial Number:	CS1360		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	DUPONT MERCK	Activity:	0.102 Ci (102 mCi or 3.774 GBq)
Model Number:	NER-572	IAEA Category:	4
Serial Number:	CS1360	Leak Test Result:	0.012 µCi (12 nCi or 444 Bq)

Device/Associated Equipment:

EQP

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	HLP-2375
Manufacturer:	MOUNT SOPRIS	Serial Number:	GG375

LKS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	HLP-2375
Manufacturer:	MOUNT SOPRIS	Serial Number:	GG375

Reporting Requirements:

EQP

30.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR FAILS TO FUNCTION.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LKS

39.35(d)(1) - Well logging source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA231	09/04/2002		AGREEMENT STATE EVENT REPORT
LTR030225	02/26/2003		AGREEMENT STATE LETTER
LTR040729	08/02/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported that two well logging sources, a 592 GBq (16 Ci) Am-Be source (serial #A2300) and a 63 GBq (1.7 Ci) Cs-137 source (serial #882), were abandoned down hole. The well logging tool became stuck on 3/30/2002. The licensee made multiple recovery attempts from 3/30 to 4/22/2002. The sources were abandoned and cemented in the Dominion Exploration & Production well located in Canadian County, Oklahoma. The depth of abandonment was 11,464 feet for the Am-Be source and 11,489 feet for the Cs-137 source.

Event Date: 03/30/2002

Date Reported to Agreement State: 05/20/2002

Discovery Date: 03/30/2002

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OK-00090-05

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: CANADIAN COUNTY

State: OKLAHOMA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: A2300

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 882

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OK020003	07/31/2002		AGREEMENT STATE EVENT REPORT
LTR050706	07/14/2005		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #7947NK-1), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #1438GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #QQ-424 and QQ-444). The well is located offshore at High Island Block A545 and is operated by Shell Exploration & Production Company. The sources became stuck on 4/15/2002 and were declared irretrievable on 4/17/2002. The Am-Be source is located at a measured depth of 6,603 feet (vertical depth of 4,462 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 6,612 feet (vertical depth of 4,466 feet). The total measured depth of the well is 11,540 feet (vertical depth of 6,758 feet). The measured depth to the top of the cement abandonment plug is 6,270 feet (vertical depth of 4,324 feet). A permanent warning plaque will be placed on the well head.

Event Date: 04/15/2002

Date Reported to Agreement State:

Discovery Date: 04/15/2002

Date Reported to NRC: 04/17/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HIGH ISLAND BLOCK A-545

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 7947NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 1438GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-424		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-444		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR020502	07/08/2002		LICENSEE REPORT
ML021680526	11/11/2003		LICENSEE REPORT

Narrative:

The licensee reported that a AEA Technologies 62.9 GBq (1.7 Ci) Cs-137 well logging source (model CDC.CY3, serial #1844G) was abandoned down hole. The well logging tool became stuck on 4/11/2002 in a "cork screw hole." Multiple attempts to retrieve the tool between 4/11 and 4/22/2002 were unsuccessful. The abandoned source location is N.W. Monte Christo Field, Hidalgo County, Texas. The depth of abandonment is 16,287 feet. The tool and source were cemented in place with red-dyed cement to a depth of 14,800 feet. Whipstock was installed to a depth of 14,690 feet. The required wellhead plaque has been ordered for attachment.

Event Date: 04/11/2002

Date Reported to Agreement State: 04/22/2002

Discovery Date: 04/11/2002

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833-037

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: EDINBURG

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: HIDALGO COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AEA TECHNOLOGIES

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: 1844G

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7903	06/21/2002		AGREEMENT STATE EVENT REPORT
LTR020909	09/10/2002		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #8641NK-1), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2780GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #XX-779 and SS-958). The well is located offshore at Mississippi Canyon Block 765 and is operated by Shell Exploration & Production Company. The sources became stuck on 3/8/2002 and were declared irretrievable on 3/12/2002. The Am-Be source is located at a measured depth of 22,269 feet (vertical depth of 14,714 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 22,279 feet (vertical depth of 14,719 feet). The total measured depth of the well is 29,846 feet (vertical depth of 18,098 feet). The measured depth to the top of the cement abandonment plug is 21,150 feet (vertical depth of 14,209 feet). A permanent warning plaque will be placed on the well head.

Event Date: 03/08/2002

Date Reported to Agreement State:

Discovery Date: 03/08/2002

Date Reported to NRC: 03/12/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: MISSISSIPPI CANYON 765

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8641NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2780GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	XX-779		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	SS-958		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR020403	06/04/2002		LICENSEE REPORT

Narrative:

The licensee reported the temporary loss of control of a 47.4 GBq (1.28 Ci) Cs-137 well logging source (manufactured by AEA Technology, model CDC.CY3) that resulted in exposures to individual members of the public at a temporary jobsite near Havre, Montana. While transferring the source from the well logging tool to its shielded transportation container, the sealed source fell unnoticed onto the rig floor next to the shielded transportation container. The logging engineer was able to lock the source plug in place even though the source was not in the container, contrary to the intended safety feature of this plug. The source remained unshielded on the drill rig floor until recovered by the licensee on the evening of 5/23/2002 (approximately 56 hours later). The licensee's initial assessment conservatively estimated that 31 rig workers (employees of Computalog Wireline Services, Incorporated, license #42-26891-01) received radiation doses ranging from less than 1 to 6.4 cSv (rem). A subsequent NRC assessment determined that 13 of the 31 rig workers received radiation doses in excess of the NRC annual public dose exposure limit. These doses ranged from 0.2 to 0.4 cSv (rem). Cytogenetic testing was performed at the Armed Forces Radiobiological Research Institute for one of the ten individuals, which indicated a potential whole-body equivalent dose on the order of 200 cGy (rad), significantly higher than the dose estimates. Follow-up cytogenetic testing of seven of the rig workers yielded negative results for all except the worker with the initial high result. An analysis of this discrepancy indicated that it was caused by an unusual characteristic of the worker's chromosomes. This event was caused by the failure of the logging engineer to properly transfer the source to its storage container, the failure to perform radiation surveys, a false indication by the source shield plug assembly, and the failure to include a design specification for the cable attachment for the plug assembly. Corrective actions included disciplinary against the three individuals involved in the incident, informing all licensee facilities of the event, modifying the licensee's training program, and reviewing the design of the source shields to ensure the functionality of the source plug.

Event Date: 05/21/2002

Date Reported to Agreement State:

Discovery Date: 05/23/2002

Date Reported to NRC: 05/23/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: HAVRE

State: MONTANA

Additional Involved Party:

License Number: NON-LICENSEE

Name: PAN CANADIAN

NRC Docket Number: NA

City: HAVRE

NRC Program Code: NA

State: MONTANA

NRC Region: 4

Zip Code: 59501

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

EXP - OVEREXPOSURE

LAS - LOST/ABANDONED/STOLEN

Event Cause:

EQP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

EXP

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

LAS

HUMAN ERROR / FAILURE TO FOLLOW PROCEDURE OR WRONG PROCEDURE USED

Old Cause: PROCEDURE NOT FOLLOWED

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

EXP

IAEA Aggregate Category: 4

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

PERSONNEL REPRIMANDED
PERSONNEL RECEIVED ADDITIONAL TRAINING
PROCEDURE MODIFIED

EXP

PERSONNEL REPRIMANDED
PERSONNEL RECEIVED ADDITIONAL TRAINING
PROCEDURE MODIFIED

LAS

PERSONNEL REPRIMANDED
PERSONNEL RECEIVED ADDITIONAL TRAINING
PROCEDURE MODIFIED

Exposure Detail:

Person #: 1

Exposure Dose: 0.3 rem (300 mrem or 3 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 2

Exposure Dose: 0.2 rem (200 mrem or 2 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 3

Exposure Dose: 0.3 rem (300 mrem or 3 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 4

Exposure Dose: 0.3 rem (300 mrem or 3 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 5

Exposure Dose: 0.3 rem (300 mrem or 3 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 6

Exposure Dose: 0.4 rem (400 mrem or 4 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 7

Exposure Dose: 0.2 rem (200 mrem or 2 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 8

Exposure Dose: 0.2 rem (200 mrem or 2 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 9

Exposure Dose: 0.2 rem (200 mrem or 2 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 10

Exposure Dose: 0.2 rem (200 mrem or 2 mSv)

Type of Dose: WHOLE BODY, NON OCCUPATIONAL

Effect:

Person #: 11
 Exposure Dose: 0.2 rem (200 mrem or 2 mSv)
 Type of Dose: WHOLE BODY, NON OCCUPATIONAL
 Effect:

Person #: 12
 Exposure Dose: 0.2 rem (200 mrem or 2 mSv)
 Type of Dose: WHOLE BODY, NON OCCUPATIONAL
 Effect:

Person #: 13
 Exposure Dose: 0.3 rem (300 mrem or 3 mSv)
 Type of Dose: WHOLE BODY, NON OCCUPATIONAL
 Effect:

Source of Radiation:

EQP

Source Number: 1
 Source/Radioactive Material: SEALED SOURCE WELL LOGGING Radionuclide: CS-137
 Manufacturer: AEA TECHNOLOGIES Activity: 1.28 Ci (47.36 GBq)
 Model Number: CDC.CY3 IAEA Category: 4
 Serial Number: NR

EXP

Source Number: 1
 Source/Radioactive Material: SEALED SOURCE WELL LOGGING Radionuclide: CS-137
 Manufacturer: AEA TECHNOLOGIES Activity: 1.28 Ci (47.36 GBq)
 Model Number: CDC.CY3 IAEA Category: 4
 Serial Number: NR

LAS

Source Number: 1
 Source/Radioactive Material: SEALED SOURCE WELL LOGGING Radionuclide: CS-137
 Manufacturer: AEA TECHNOLOGIES Activity: 1.28 Ci (47.36 GBq)
 Model Number: CDC.CY3 IAEA Category: 4
 Serial Number: NR

Device/Associated Equipment:

EQP

Device Number: 1
 Device Name: SOURCE CARRIER, OTHER Model Number: NR
 Manufacturer: AEA TECHNOLOGIES Serial Number: NR

EXP

Device Number: 1
 Device Name: SOURCE CARRIER, OTHER Model Number: NR
 Manufacturer: AEA TECHNOLOGIES Serial Number: NR

LAS

Device Number: 1
 Device Name: SOURCE CARRIER, OTHER Model Number: NR
 Manufacturer: AEA TECHNOLOGIES Serial Number: NR

Reporting Requirements:

EQP

30.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR FAILS TO FUNCTION.
 39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

EXP

20.2203(a)(2)(iv) - Doses in excess of the limits for an individual member of the public in 20.1301.
 39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.
 39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38938	05/28/2002		EVENT NOTIFICATION
PN402025	05/28/2002		PRELIMINARY NOTIFICATION
- ML021440350	05/28/2002		Same as PN402025
PN402025A	05/30/2002		PRELIMINARY NOTIFICATION
- ML021480522	05/30/2002		Same as PN402025A
PN402025B	07/02/2002		PRELIMINARY NOTIFICATION
- ML021780432	07/02/2002		Same as PN402025B
LTR020730	07/31/2002		NRC LETTER
PN402025C	09/05/2002		PRELIMINARY NOTIFICATION
- ML022470117	09/05/2002		Same as PN402025C
ML022470239	09/23/2002		NRC LETTER
ML022690086	10/02/2002		NRC NEWS ANNOUNCEMENT
ML021690595	12/11/2002		LICENSEE REPORT
ML031280084	06/10/2003		INSPECTION REPORT
ML031280084	06/10/2003		NRC LETTER
ML031420127	06/10/2003		NRC NEWS ANNOUNCEMENT
LTR030731	10/14/2003		REGION REPORT
ML032880301	10/27/2003		NOTICE OF VIOLATION
ML032880301	10/27/2003		NRC LETTER
ML032880328	10/27/2003		NRC LETTER
ML032880328	10/27/2003		NOTICE OF VIOLATION
ML032880332	10/27/2003		NOTICE OF VIOLATION
ML032880332	10/27/2003		NRC LETTER
ML032870315	10/29/2003		NOTIFICATION OF SIGNIFICANT ENFORCEMENT ACTION
ML032890021	10/29/2003		NRC NEWS ANNOUNCEMENT
ML042940248	11/08/2004		OTHER
NUREG-1794	11/08/2004		OTHER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources that included a 185 GBq (5 Ci) Am-Be source (Amersham AMN.CY series, serial #NLS-58) and a 74 GBq (2 Ci) Cs-137 source (serial #DLS-1139). The well (South Marsh Island, block 128) is located offshore Louisiana and was operated by Devon Energy Corporation. The logging tool became stuck on 4/12/2002. Multiple attempts to recover the sources were unsuccessful. The Am-Be source is located at a measured depth of 7,463 feet (vertical depth of 7,005 feet) and the Cs-137 source is located at a depth of 7,471 feet (vertical depth of 7,012 feet). The measured depth of the well is 7,525 feet (vertical depth of 7,058 feet). The top of the cement plug is at a measured depth of 7,100 feet (vertical depth of 6,693 feet). The well head will be marked with a plaque as required.

Event Date: 04/12/2002

Date Reported to Agreement State:

Discovery Date: 04/12/2002

Date Reported to NRC: 04/18/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: SOUTH MARSH ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NLS-58

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: DLS-1139

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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ML021350702	05/22/2002		NRC LETTER
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ML021350702	05/22/2002		LICENSEE REPORT
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Narrative:

The licensee reported the abandonment of two irretrievable well logging sources that included a 555 GBq (15 Ci) Am-Be source and a 74 GBq (2 Ci) Cs-137 source. The licensee was performing work under reciprocity. Fishing attempts to retrieve the source were unsuccessful. The sources and logging tool were abandoned at an estimated depth of 7,650 feet. A cement plug was set and capped with red dye along with a deflection device. A permanent plaque was fabricated and attached to the wellhead. The tool and sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation.

Event Date: 06/15/2001
Discovery Date: 06/15/2001

Date Reported to Agreement State: 06/15/2001
Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: NR
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: ASAS
Name: THE ROSEL CO.
City: LIBERAL
State: KANSAS
Zip Code: NR

Site of Event:

Site Name: LIPSCOMB COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: NR

Radionuclide: AM-BE
Activity: 15 Ci (555 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: NR

Radionuclide: CS-137
Activity: 2 Ci (74 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

TX-I-7766

04/11/2002

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable 6.7 MBq (180 µCi) Am-241 well logging source. The source was abandoned at a depth of 10,018 feet and immobilized, by red-dyed cement, to a depth of 9,980 feet. The source was abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation.

Event Date: 04/12/2001

Date Reported to Agreement State: 04/12/2001

Discovery Date: 04/12/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L03835

Name: PROTECHNICS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77040

Site of Event:

Site Name: HOUSTON

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-241

Manufacturer: NR

Activity: 0.00018 Ci (180 µCi or 6.66 MBq)

Model Number: NR

IAEA Category: 5

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7745	04/04/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources that included a 592 GBq (16 Ci) Am-Be source and a 62.9 GBq (1.7 Ci) Cs-137 source. The logging tool became stuck at a depth of 12,050 feet and repeated attempts to retrieve the sources were unsuccessful. The tool and sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation.

Event Date: 04/16/2001

Date Reported to Agreement State: 04/16/2001

Discovery Date: 04/16/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: SUGAR LAND

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

TX-I-7744

04/04/2002

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source (Gammatron, Incorporated, model AN-HP, serial #SST-019) containing 7.4 MBq (200 µCi) of Am-Be. The well is located at the Mimms Creek Field in Freestone, Texas, and was operated by Anadarko Petroleum Corporation. The logging tool became stuck with the top of the tool at 12,004 feet. Attempts on seven consecutive days to recover the source were unsuccessful. The source was abandoned at a depth of 12,021 feet and was immobilized with 232 feet of red-dyed cement at a depth of 11,772 feet. The well head will be marked with a plaque as required.

Event Date: 03/10/2002

Date Reported to Agreement State: 03/14/2002

Discovery Date: 03/10/2002

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L03835

Name: PROTECHNICS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77040

Site of Event:

Site Name: FREESTONE

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 0.0002 Ci (200 µCi or 7.4 MBq)

Model Number: AN-HP

IAEA Category: 5

Serial Number: SST-019

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7877	04/01/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources that included a 592 GBq (16 Ci) Am-Be source (Gammatron, Incorporated, model NSR-F, serial #A5059) and a 62.9 GBq (1.7 Ci) Cs-137 source (Amersham model CDC.CY, serial #A5058). The well is located in Galveston County, Texas, and was operated by Ocean Energy. The logging tool became stuck with the top of the tool at 14,752 feet in a 15,271 foot deep well. Multiple attempts to recover the sources were unsuccessful. The sources were cemented in place with 327 feet of red-dyed cement. The well head will be marked with a plaque as required.

Event Date: 02/05/2002

Date Reported to Agreement State: 02/05/2002

Discovery Date: 02/05/2002

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00109

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: GALVESTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 16 Ci (592 GBq)

Model Number: NSR-F

IAEA Category: 3

Serial Number: A5059

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.7 Ci (62.9 GBq)

Model Number: CDC.CY

IAEA Category: 4

Serial Number: A5085

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number: Entry Date: Retraction Date: Type of Report:

TX-I-7862

04/01/2002

AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-011) and a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2248GW). The sources became stuck on 6/11/2001, were declared irretrievable on 6/17/2001, and were abandoned on 6/18/2001. The well is located at High Island Block 202 and is operated by Spinnaker Exploration Company LLC of Houston, Texas. The Am-Be source is located at a measured depth of 13,835 feet (vertical depth of 12,841 feet) and the Cs-137 source is located at a measured depth of 13,840 feet (vertical depth of 12,844 feet). The total measured depth of the well is 13,930 feet (vertical depth of 12,906). The measured depth to the top of the cement abandonment plug is 12,861 feet (vertical depth of 12,137 feet). A permanent warning plaque will be placed on the well head.

Event Date: 06/11/2001

Date Reported to Agreement State:

Discovery Date: 06/11/2001

Date Reported to NRC: 06/17/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: HIGH ISLAND BLOCK 202

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-011

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2248GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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LTR010710	03/11/2002		LICENSEE REPORT
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Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 370 GBq (10 Ci) Am-Be source (serial #A0150), and a 62.9 GBq (1.7 Ci) Cs-137 source (serial #A2100). The well is located at Main Pass 283 Block 284 and is operated by Exxon Mobil. The sources became stuck on 11/7/2001 and were declared irretrievable and abandoned on 11/10/2001. The sources are located at a measured depth of 14,715 feet (vertical depth of 13,140 feet). The total measured depth of the well is 14,800 feet (vertical depth of 13,222 feet). The measured depth to the top of the cement abandonment plug is 13,996 feet. A permanent warning plaque will be placed on the well head.

Event Date: 11/07/2001
Discovery Date: 11/07/2001

Date Reported to Agreement State:
Date Reported to NRC: 11/10/2001

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 42-00090-03
NRC Docket Number: 03006388
NRC Program Code: 03110
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: MAIN PASS BLOCK 284

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: A0150

Radionuclide: AM-BE
Activity: 10 Ci (370 GBq)
IAEA Category: 3

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: A2100

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR011210	03/11/2002		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of an Isotope Products Laboratory well logging source (model HEG-241, serial #NN-082, capsule type) that contained 9.25 MBq (250 µCi) of Am-241. The source was last leak tested on 9/7/2001 (no leakage), was pressure tested to 25,000 psi, and was manufactured on 9/25/1998. The well logging tool became stuck at 17,125 feet, with the top of the tool at 17,106 feet. The attempted fishing on three consecutive days was unsuccessful. The licensee pumped 466 feet of red cement to secure the source and to plug the well on 2/14/2002. The top of the cement plug is at 16,640 feet. A permanent identification plaque is under construction for placement on the wellhead. The well was located in, Leon County, Texas, AP#42-289-30432. The source was abandoned in accordance with Texas Regulations.

Event Date: 02/14/2002

Date Reported to Agreement State: 03/01/2002

Discovery Date: 02/14/2002

Date Reported to NRC: 03/01/2002

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L03835

Name: PROTECHNICS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77040

Site of Event:

Site Name: LEON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 5

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-241

Manufacturer: ISOTOPE PRODUCTS LAB

Activity: 0.00025 Ci (250 µCi or 9.25 MBq)

Model Number: HEG-241

IAEA Category: 5

Serial Number: NN-082

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38742	03/04/2002		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-7863	09/30/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of a well logging source (Amersham model CDC.CY6, serial #2551GW) containing 55.5 GBq (1.5 Ci) of Cs-137. The well is located in Uintah, Utah, and is operated by Rosewood Resources of Houston, Texas. The well logging tool initially became stuck on 1/8/2002. Multiple recovery attempts succeeded in recovering an Am-Be source, but the Cs-137 source could not be retrieved and was declared to be irretrievable on 1/23/2002. The source is located at a measured depth of 5,064 feet. The total measured depth of the well is 5,660 feet. The measured depth to the top of the cement abandonment plug is 5,019 feet. A permanent warning plaque will be placed on the well head.

Event Date: 01/08/2002

Date Reported to Agreement State:

Discovery Date: 01/08/2002

Date Reported to NRC: 01/23/2002

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: UINTAH

State: UTAH

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2551GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML020380540	02/27/2002		LICENSEE REPORT
LTR020204	04/16/2002		LICENSEE REPORT

Narrative:

The licensee reported the loss and recovery of a Baker Hughes H-3 source (model 8281AA, serial #189707) that contained an activity of 32.5 GBq (878 mCi) and was used in a pulsed neutron tool (well logging tool). The licensee ordered two of these tools from the Baker Atlas facility in Pearland, Texas. The tools were broken down into four sections each and shipped on a flatbed truck by the Sam Broussard Trucking Company. On 1/3/2002, a night dispatcher received the tools, which were never used by the Houma facility. On 1/31/2002, the Pearland facility requested one of the tools for a logging job. While preparing the tool for shipment, the licensee realized that a piece of the instrument that houses the H-3 source was missing. Local authorities, the Sam Broussard Trucking Company, scrap yards, and state and federal agencies were notified to assist with the search for the missing section. On 3/13/2002, an individual notified the licensee that he had found the instrument on the side of the road and had kept it for several weeks. He identified the owner by markings on the housing. The licensee took possession of the instrument. No excessive exposures were received during the incident. The licensee wrote a new procedure to prevent a recurrence.

Event Date: 01/03/2002

Date Reported to Agreement State: 02/14/2002

Discovery Date: 01/31/2002

Date Reported to NRC: 02/15/2002

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2187-L01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: HOUMA

State: LOUISIANA

Additional Involved Party:

License Number: TX-L00446

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: PEARLAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: LOSS OF ADMINISTRATIVE CONTROL

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: NA

Corrective Actions Information:

LAS

NEW PROCEDURE WRITTEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: H-3

Manufacturer: BAKER HUGHES

Activity: 0.878 Ci (878 mCi or 32.486 GBq)

Model Number: 8281AA

IAEA Category: NA

Serial Number: 189707

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

20.2201(a)(1)(ii) - Lost, stolen, or missing licensed material in a quantity greater than 10 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38701	02/19/2002		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LA020002	04/29/2002		AGREEMENT STATE EVENT REPORT
LTR020426	04/29/2002		AGREEMENT STATE LETTER
TX-I-7866	11/07/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source (Amersham model AMC.D3, serial #6697LQ) containing 5.55 GBq (150 mCi) of Am-241. The source became stuck on 2/11/ 2001 and was determined to be irretrievable on 2/20/2001. The well is located at South Pelto Block 23 and is operated by Stone Energy, Incorporated, of Lafayette, Louisiana. The source is located at a depth of 14,983 feet. The total depth of the well is 17,175 feet. The depth to the top of the cement abandonment plug is 14,128 feet. A permanent warning plaque will be placed on the well head.

Event Date: 02/11/2001
Discovery Date: 02/11/2001

Date Reported to Agreement State:
Date Reported to NRC: 02/20/2001

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 17-27629-01
NRC Docket Number: 03035009
NRC Program Code: 03110
NRC Region: 4

Reciprocity: NONE
Name: WOOD GROUP LOGGING SERVICES
City: BROUSSARD
State: LOUISIANA
Zip Code: 70518

Site of Event:

Site Name: SOUTH PELTO BLOCK 23

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AMERSHAM
Model Number: AMC.D3
Serial Number: 6697LQ

Radionuclide: AM-241
Activity: 0.15 Ci (150 mCi or 5.55 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010223	02/13/2002		LICENSEE REPORT
LTR010426	02/13/2002		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources: a 684.5 GBq (18.5 Ci) Am-Be source (Gammatron model AN-HP, serial #DSN-18) and a 55.5 GBq (1.5 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2771GW). The sources were initially stuck on 7/15/ 2001, and were determined to be irretrievable on 7/22/2001. The well is located at Main Pass Block 305 and is operated by Samedan Oil Corporation of Houston, Texas. The Am-Be source is located at a measured depth of 8,929 feet (vertical depth of 8,016 feet) and the Cs-137 source is located at a measured depth of 8,948 feet (vertical depth of 8,031 feet). The total measured depth of the well is 9,102 feet (vertical depth of 8,150 feet). The measured depth to the top of the cement abandonment plug is 7,400 feet. A permanent warning plaque will be placed on the well head.

Event Date: 07/15/2001

Date Reported to Agreement State:

Discovery Date: 07/15/2001

Date Reported to NRC: 07/22/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: MAIN PASS BLOCK 305

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18.5 Ci (684.5 GBq)

Model Number: AN-HP

IAEA Category: 2

Serial Number: DSN-18

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2771GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010924	02/13/2002		LICENSEE REPORT
ML012880418	08/29/2003		LICENSEE REPORT

Narrative:

The licensee reported that a well logging tool and source became stuck at 10,565 feet. The tool (model NSR-F, serial#2437) contained an Am-Be source with an activity of 592 GBq (16 Ci). The tool became stuck on the third descent into the well. Five attempts to retrieve the tool were unsuccessful. The cause of the incident is believed to be overbalanced sand. The source was stuck in a well located in Kleberg County, Texas. The licensee abandoned the source at 10,565 feet and immobilized it with a red-dyed cement plug from the top of the tool at 10,565 feet to 10,265 feet. Using a directional MWD tool, the licensee sidetracked the original hole, ensuring at least 15 feet of clearance. The required marker has been ordered for installation on the well head warning of the lost radioactive source.

Event Date: 01/29/2002

Date Reported to Agreement State: 02/05/2002

Discovery Date: 01/29/2002

Date Reported to NRC: 02/06/2002

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L01833-037

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: EDINBURG

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: KLEBERG COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NSR-F

Manufacturer: NR

Serial Number: 2437

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38673	02/07/2002		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-7855	09/27/2002		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of five irretrievable well logging sources; two 148 GBq (4 Ci) Am-Be sources (Amersham model AMN.CY17, serial #8613NK and #8614NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2888GW), a 55.5 kBq (1.5 µCi) Cs-137 source (Isotope Products model A3024, serial #NN-990), and a 18.5 kBq (0.5 µCi) Cs-137 source (Isotope Products model A3024, serial #NN-723). The well is located at Eugene Island Block 243 and is operated by Stone Energy Corporation. The sources became stuck on 11/13/2001, were declared irretrievable on 11/20/2001, and were abandoned on 11/28/2001. The Am-Be sources are located at a measured depth of 14,552 feet (vertical depth of 13,203 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 14,567 feet (vertical depth of 13,212 feet). The total measured depth of the well is 14,688 feet (vertical depth of 13,283 feet). The measured depth to the top of the cement abandonment plug is 14,180 feet (vertical depth of 12,985 feet). A permanent warning plaque will be placed on the well head.

Event Date: 11/13/2001

Date Reported to Agreement State:

Discovery Date: 11/13/2001

Date Reported to NRC: 11/20/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: EUGENE ISLAND BLOCK 243

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8613NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8614NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	2888GW		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000015 Ci (1.5 μ Ci or 55.5 kBq)
Model Number:	A3024	IAEA Category:	5
Serial Number:	NN-990		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	A3024	IAEA Category:	5
Serial Number:	NN-723		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML013520248	01/08/2002		LICENSEE REPORT
LTR011217	03/11/2002		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 592 GBq (16 Ci) Am-Be source (serial #A1667), and a 62.9 GBq (1.7 Ci) Cs-137 source (serial #AA5029). The well is located offshore Texas and is operated by Kerr McGee Oil and Gas Corporation. The sources became stuck on 9/5/2001, were declared irretrievable on 9/18/2001, and were abandoned on 9/20/2001. The Am-Be source is located at a measured depth of 17,796 feet and the Cs-137 source is located at a measured depth of 17,814 feet. The total measured depth of the well is 18,423 feet. The measured depth to the top of the cement abandonment plug is 13,850 feet. A permanent warning plaque will be placed on the well head.

Event Date: 09/05/2001

Date Reported to Agreement State:

Discovery Date: 09/05/2001

Date Reported to NRC: 09/18/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: OFFSHORE

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: A1667

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: AA5029

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML013270215	12/11/2001		LICENSEE REPORT
LTR011115	03/11/2002		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of an irretrievable source (Gamma Industries model VD-HP, serial #2131) containing 3.7 GBq (100 mCi) of Co-60. The licensee was conducting a routine well logging job on Olin Corporation's inactive brine well in the West Hackberry Field in Cameron Parish, Louisiana. The logging supervisor was pulling the logging tool string up through the well head while the logging assistant held the wire line down. The logging supervisor turned his head momentarily, at which time the tool apparently reached the top of the lubricator and pulled the wire line out of the cable head. This resulted in the cable head, logging tool, sinker bar, and source falling to the bottom of the cavern at a depth of 4235 feet. The cavern volume is 5,814,188 barrels and is approximately 280 feet wide at the bottom. No attempt was made to recover the source. A plaque will be attached to the well head.

Event Date: 09/30/2001

Date Reported to Agreement State: 10/01/2001

Discovery Date: 09/30/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: ASAS

License Number: TX-L02622

Name: SONIC SURVEYS

NRC Docket Number: NA

City: MONT BELVIEU

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77580

Site of Event:

Site Name: CAMERON PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CO-60

Manufacturer: GAMMA INDUSTRIES

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: VD-HP

IAEA Category: 4

Serial Number: 2131

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA010015	11/27/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The Kansas Department of Health and Environment, Bureau of Air and Radiation, was unable to contact the Trinity Wireline in order to perform an inspection upon license termination. A well logging source (Gulf Nuclear model 71-1, serial #103-3) containing 111 GBq (3 Ci) of Am-Be is unaccounted for. Trinity Wireline's other sources have been transferred to other licensees. The State believes that this source was also transferred to another licensee, but has been unable to confirm this. No corrective actions have been taken.

Event Date: 07/06/2000

Date Reported to Agreement State: 08/13/2001

Discovery Date: 07/06/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: KS-27-B730-01

Name: TRINITY WIRELINE, INC.

NRC Docket Number: NA

City: GREAT BEND

NRC Program Code: NA

State: KANSAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: GREAT BEND

State: KANSAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

HUMAN ERROR / MANAGEMENT DEFICIENCY

Old Cause: NOT REPORTED

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

NO CORRECTIVE ACTION TAKEN

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 3 Ci (111 GBq)

Model Number: 71-1

IAEA Category: 3

Serial Number: 103-3

Reporting Requirements:

LAS

20.2201(a)(1)(i) - Lost, stolen, or missing licensed material in a quantity greater than or equal to 1,000 times the Appendix C quantities.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

Keywords:

LAS

MATERIAL LOST AND NOT FOUND

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
KS010019	11/16/2001		AGREEMENT STATE EVENT REPORT
KS010019A	09/09/2008		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of an irretrievable well logging source (serial #A2018) containing 62.9 GBq (1.7 Ci) of Cs-137 source. Multiple recovery attempts were made from 8/8 to 8/13/2001. The well is located offshore at Ship Shoal Block 129 and is operated by Anadarko Petroleum. The source is located at a measured depth of 16,924 feet (vertical depth of 16,606 feet). The total measured depth of the well is 18,178 feet (vertical depth of 17,832 feet). The depth to the top of the cement abandonment plug is 16,420 feet. A permanent warning plaque will be placed on the well head.

Event Date: 08/08/2001
Discovery Date: 08/08/2001

Date Reported to Agreement State:
Date Reported to NRC: 08/13/2001

Licensee/Reporting Party Information:

Regulated By: NRC
License Number: 42-00090-03
NRC Docket Number: 03006388
NRC Program Code: 03110
NRC Region: 4

Reciprocity: NONE
Name: SCHLUMBERGER TECHNOLOGY CORP.
City: SUGAR LAND
State: TEXAS
Zip Code: 77478

Site of Event:

Site Name: SHIP SHOAL BLOCK 129

State: OFFSHORE

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: N
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: N
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: NR
Model Number: NR
Serial Number: A2018

Radionuclide: CS-137
Activity: 1.7 Ci (62.9 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010824	11/15/2001		LICENSEE REPORT

Narrative:

The licensee reported that a radioactive source was abandoned downhole after numerous attempts at retrieval. The Amersham 55.5 GBq (1.5 Ci) Cs-137 source (model CDC.CY6, serial #2550GW) was abandoned at a well near the town of Washburn, Arkansas. The well is owned by Cross Timbers Operating Company of Pacola, Oklahoma. The source became detached from its probe at a depth of 7,000 feet. An onsite investigation was performed by the Arkansas Department of Health on 8/29/2000. No items of noncompliance were noted and there was no unnecessary exposure to workers. The source abandonment plaque was installed in January 2001.

Event Date: 08/29/2000
Discovery Date: 08/29/2000

Date Reported to Agreement State: 08/29/2000
Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE
License Number: AR-319
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: 4

Reciprocity: NONE
Name: HALLIBURTON ENERGY SERVICES
City: HOUSTON
State: TEXAS
Zip Code: 77242

Site of Event:

Site Name: WASHBURN

State: ARKANSAS

Additional Involved Party:

License Number: NA
NRC Docket Number: NA
NRC Program Code: NA
NRC Region: NA

Name: NA
City: NA
State: NA
Zip Code: NA

Other Information:

NRC Reportable Event: Y
Agreement State Reportable Event: Y
Atomic Energy Act Material: Y
Consultant Hired: N

Abnormal Occurrence: N
Investigation: Y
NMED Record Complete: Y
Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING
Manufacturer: AMERSHAM
Model Number: CDC.CY6
Serial Number: 2550GW

Radionuclide: CS-137
Activity: 1.5 Ci (55.5 GBq)
IAEA Category: 4

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL
Manufacturer: NR

Model Number: NR
Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
AR-08-00-01	11/05/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a 3.7 GBq (100 mCi) Cs-137 source (model HEGG, serial #DD573, capsule type 3024) was abandoned downhole. Attempts to retrieve the source were unsuccessful. The source was abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 10/16/2001

Date Reported to Agreement State: 10/16/2001

Discovery Date: 10/16/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00747

Name: COMPUTALOG WIRELINE PRODUCTS

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76140

Site of Event:

Site Name: FORT WORTH

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 0.1 Ci (100 mCi or 3.7 GBq)

Model Number: HEGG

IAEA Category: 4

Serial Number: DD573

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7812	10/18/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported an irretrievable sealed radiation source in a well. The Gulf Nuclear source (model CSV, serial #C-32) contained 74 GBq (2 Ci) of Cs-137. Permission was given to begin abandonment procedures. The well is located in Wayne County, Ohio, and was drilled for Belden & Blake Corporation. The licensee retrieved a 111 GBq (3 Ci) Am-Be source from the well during fishing procedures. The depth of the well is 5,450 feet and the source is located at a depth of 5,420 feet.

Event Date: 07/31/2001

Date Reported to Agreement State: 07/31/2001

Discovery Date: 07/31/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OH-03111990000

Name: SUPERIOR WELL SERVICES

NRC Docket Number: NA

City: WOOSTER

NRC Program Code: NA

State: OHIO

NRC Region: 3

Zip Code: 44691

Site of Event:

Site Name: WAYNE COUNTY

State: OHIO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: C-32

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
OH010005	10/18/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a 62.9 GBq (1.7 Ci) Cs-137 source was abandoned downhole at 6,288 feet in Sutton County, Texas. Attempts to retrieve the source were unsuccessful. The source was abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 08/26/2000

Date Reported to Agreement State: 09/26/2000

Discovery Date: 08/26/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00109

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: SUTTON COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7660	10/15/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that three sealed sources were abandoned downhole in Zapata County. Five attempts to fish the sources from the well were unsuccessful. The sources consisted of a 0.67 TBq (18 Ci) Am-Be source (serial #32738), a 74 GBq (2 Ci) Cs-137 source (serial #0944), and a 29.6 kBq (0.8 µCi) Cs-137 source (serial #EE-834). The sources were immobilized at 6,844 feet by 219 feet of red tagged cement and an additional 620 feet of Class H cement. In addition, a whipstock was placed at 6,005 feet to protect the sources from intrusion. A plaque was ordered for placement on the wellhead. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 08/25/2000

Date Reported to Agreement State: 08/25/2000

Discovery Date: 08/25/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER ATLAS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: ZAPATA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18 Ci (666 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: 32738

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 0944

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	EE-834		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7647	10/10/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that a radioactive source was abandoned downhole after numerous attempts at retrieval. The Amersham 55.5 GBq (1.5 Ci) Cs-137 source (model CDC.CY6, serial #2557GW) was abandoned in Howard County, at a depth of 3,155 feet. A 40-foot steel baffle was inserted immediately above the tool and 50 feet of red concrete was injected to a depth of 3,102 feet. An additional 40 feet of steel baffle was inserted on top of the concrete plug to protect the source from future intrusion. A warning plaque was ordered for installation on the wellhead. The source was abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 08/03/2000

Date Reported to Agreement State: 08/03/2000

Discovery Date: 08/03/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: HOWARD COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2557GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7632	09/26/2001		AGREEMENT STATE EVENT REPORT
TX-I-7619	10/03/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #8640NK-1), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2603GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #NN-274 and NN-278). The well is located offshore at High Island Block A-389 and is operated by W&T Offshore, Incorporated. The Am-Be source is located at a measured depth of 9,359 feet (vertical depth of 6,016 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 9,313 feet (vertical depth of 5,991 feet). The total measured depth of the well is 9,433 feet (vertical depth of 6,057 feet). The measured depth to the top of the cement abandonment plug is 8,896 feet (vertical depth of 5,771 feet). A permanent warning plaque will be placed on the well head.

Event Date: 07/31/2001

Date Reported to Agreement State:

Discovery Date: 07/31/2001

Date Reported to NRC: 08/02/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: HIGH ISLAND BLOCK A-389

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8640NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2603GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-274		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-278		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML012400322	09/13/2001		LICENSEE REPORT
LTR010731	11/14/2001		LICENSEE REPORT

Narrative:

The licensee reported that two well logging sources were abandoned downhole in a well located in the Wildcat Field in Hardin County, Texas. The sources involved included a 592 GBq (16 Ci) Am-Be neutron source (serial #A3001) and a 62.9 GBq (1.7 Ci) Cs-137 density source (serial #A1884). Multiple recovery attempts were made to retrieve the tool and sources. The sources were immobilized by placement of a 500 foot cement plug. The Am-Be is located at a depth of 10,714 and the Cs-137 source is located at a depth of 10,732 feet. The depth of the well is 12,000 feet. A deflection device and another 50 feet of cement will be added at a later date when the well is completed. A plaque as required by Part 39 has been ordered and will be attached to the well. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date:	07/28/2001	Date Reported to Agreement State:	08/29/2001
Discovery Date:	07/28/2001	Date Reported to NRC:	08/29/2001

Licensee/Reporting Party Information:

Regulated By:	AGREEMENT STATE	Reciprocity:	NONE
License Number:	TX-L01833	Name:	SCHLUMBERGER TECHNOLOGY CORP.
NRC Docket Number:	NA	City:	SUGAR LAND
NRC Program Code:	NA	State:	TEXAS
NRC Region:	4	Zip Code:	77478

Site of Event:

Site Name:	HARDIN COUNTY	State:	TEXAS
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Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA
NRC Region:	NA	Zip Code:	NA

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number:	1		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	AM-BE
Manufacturer:	NR	Activity:	16 Ci (592 GBq)
Model Number:	NR	IAEA Category:	3
Serial Number:	A3001		
Source Number:	2		
Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	1.7 Ci (62.9 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	A1884		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38248	08/30/2001		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
TX-I-7794	05/07/2002		AGREEMENT STATE EVENT REPORT
LTR050706	07/14/2005		AGREEMENT STATE LETTER

Narrative:

The licensee reported that five well logging sources were abandoned downhole in a well offshore of North Padre Island. There were two Amersham Am-Be sources (model AMN.CY17, serial #8092NK and 8093nk) containing 148 GBq (4 Ci) each, one Amersham Cs-137 source (model CDC.CY13, serial #2582GW) containing 74 GBq (2 Ci), and two Isotope Products Cs-137 sources (model 3024, serial #NN-308 and NN-350) containing 55.5 and 18.5 kBq (1.5 and 0.5 µCi), respectively. The sources were immobilized by placement of a cement plug. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253. The licensee was issued a Notice of Violation for failure to make a written report within 30 days of the incident.

Event Date: 01/25/2000

Date Reported to Agreement State: 01/25/2000

Discovery Date: 01/25/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L02113

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: NORTH PADRE ISLAND

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8092NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8093NK

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	AMERSHAM	Activity:	2 Ci (74 GBq)
Model Number:	CDC.CY13	IAEA Category:	4
Serial Number:	2582GW		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000015 Ci (1.5 μ Ci or 55.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-308		

Source Number: 5

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-350		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
TX-I-7605	08/29/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported that three sealed sources were abandoned downhole in Lavaca County after three unsuccessful recovery attempts. The sources consisted of an 0.67 TBq (18 Ci) Am-Be source (serial #48486), a 74 GBq (2 Ci) Cs-137 source (serial #1736GW), and a 29.6 kBq (0.8 µCi) Cs-137 source (serial #Z-189). The sources were abandoned at a depth of 12,180 feet and immobilized by red-dyed cement to a depth of 11,167 feet. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 04/05/2000

Date Reported to Agreement State: 04/05/2000

Discovery Date: 04/05/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: TX-L00446

Name: BAKER ATLAS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77073

Site of Event:

Site Name: LAVACA COUNTY

State: TEXAS

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18 Ci (666 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: 48486

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 1736GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	Z-189		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010809	08/28/2001		AGREEMENT STATE LETTER
TX-I-7591	08/28/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. Permission was granted to begin abandonment procedures on 8/19/2001. The well is located in Tuscarawas County, Ohio, and was drilled for Belden & Blake Corporation. The sources include a GNI 74 GBq (2 Ci) Cs-137 sealed source (model CSV) and a GNI 111 GBq (3 Ci) Am-Be sealed source (model 71-1). The depth of the well is 5,915 feet and the sources are located at a depth of 4,920 feet.

Event Date: 08/19/2001

Date Reported to Agreement State: 08/20/2001

Discovery Date: 08/19/2001

Date Reported to NRC: 08/20/2001

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: OH-03111300001

Name: APPALACHIAN WELL SURVEYS, INC.

NRC Docket Number: NA

City: CAMBRIDGE

NRC Program Code: NA

State: OHIO

NRC Region: 3

Zip Code: NR

Site of Event:

Site Name: TUSCARAWAS COUNTY

State: OHIO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GULF NUCLEAR

Activity: 3 Ci (111 GBq)

Model Number: 71-1

IAEA Category: 3

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
EN38222	08/21/2001		EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
OH010006	10/18/2001		AGREEMENT STATE EVENT REPORT
LTR040518	05/19/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #4122NK), a 111 GBq (3 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2777GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #QQ-829 and PP-183). The well is located offshore at Ship Shoal Block 216 and is operated by RME Petroleum Company. The Am-Be source is located at a measured depth of 12,704 feet (vertical depth of 12,291 feet) and the 111 GBq (3 Ci) Cs-137 source is located at a measured depth of 12,714 feet (vertical depth of 12,298 feet). The total measured depth of the well is 12,825 feet (vertical depth of 12,376 feet). The measured depth to the top of the cement abandonment plug is 12,355 feet (vertical depth of 12,037 feet). A permanent warning plaque will be placed on the well head.

Event Date: 07/01/2001

Date Reported to Agreement State:

Discovery Date: 07/01/2001

Date Reported to NRC: 07/04/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: SHIP SHOAL BLOCK 216

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 4122NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 3 Ci (111 GBq)

Model Number: CDC.CY13

IAEA Category: 3

Serial Number: 2777GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-829		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	PP-183		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML012060494	08/10/2001		LICENSEE REPORT
LTR010711	11/14/2001		LICENSEE REPORT

Narrative:

The licensee (dba Baker Atlas) reported the abandonment of three irretrievable sealed radiation sources in a well. The well is located Rankin County, Mississippi. The first source contained 74 GBq (2 Ci) of Cs-137 (serial #780), the second source contained 666 GBq (18 Ci) of Am-Be (serial #39272), and the third source contained 29.6 GBq (0.8 Ci) of Cs-137 (serial #V-576). A 250 foot plug, with red dye, will be placed from 16,834 feet to 17,084 feet. Whipstock was set at 16,965 feet. A warning plaque will be mounted on the wellhead.

Event Date: 04/19/2001

Date Reported to Agreement State: 04/19/2001

Discovery Date: 04/19/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: MS-385-01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 2

Zip Code: 77267

Site of Event:

Site Name: RANKIN COUNTY

State: MISSISSIPPI

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18 Ci (666 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: 39272

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 780

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.8 Ci (800 mCi or 29.6 GBq)
Model Number:	NR	IAEA Category:	4
Serial Number:	V-576		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
MS010004	07/03/2001		AGREEMENT STATE EVENT REPORT
LTR050706	07/14/2005		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of a Gulf Nuclear 74 GBq (2 Ci) Cs-137 source (model CSV, serial #H-02) during well logging operations in Weld County, Colorado. The licensee first reported that the source was stuck at the bottom of the 7,935 foot well on 4/4/2001. Attempts to retrieve the source were unsuccessful. The well was backfilled with 44 feet of red cement and a deflection device. A warning plaque was welded to the wellhead.

Event Date: 04/04/2001

Date Reported to Agreement State: 05/01/2001

Discovery Date: 04/04/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CO-838-01

Name: ROCKY MOUNTAIN PHOENIX SURVEYS, INC.

NRC Docket Number: NA

City: BRIGHTON

NRC Program Code: NA

State: COLORADO

NRC Region: 4

Zip Code: 80601

Site of Event:

Site Name: WELD COUNTY

State: COLORADO

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 4

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GULF NUCLEAR

Activity: 2 Ci (74 GBq)

Model Number: CSV

IAEA Category: 4

Serial Number: H-02

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CO010017	07/02/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #9240NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2749GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources. The well is located offshore Texas at High Island Block 573 and is operated by Union Oil Company of California. The Am-Be source is located at a measured depth of 4,301 feet (vertical depth of 4,210 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 4,311 feet (vertical depth of 4,218 feet). The total measured depth of the well is 5,703 feet (vertical depth of 5,060 feet). The measured depth to the top of the cement abandonment plug is 3,721 feet (vertical depth of 3,707 feet). A permanent warning plaque will be placed on the well head.

Event Date: 04/26/2001

Date Reported to Agreement State:

Discovery Date: 04/26/2001

Date Reported to NRC: 04/29/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: HIGH ISLAND BLOCK 573

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 9240NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2749GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	NR		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML011420342	06/12/2001		LICENSEE REPORT

Narrative:

The licensee reported a leaking Cs-137 source (model A-3000) with an activity of 1.67 GBq (45 mCi). Three of these sources had been sent to Computalog Wireline in Fort Worth, Texas. On 11/16/2000, without leak testing the sources, Computalog placed two of the sources in a well logging apparatus and shipped them to the Computalog warehouse in Canada. On 11/20/2000, Computalog discovered the Texas facility's source handling tools and table were contaminated, but was not aware of the cause. On 12/12/2000, the Canada warehouse discovered that both sources were contaminated and one was leaking. The Canada warehouse notified the Texas facility who then checked the remaining source. Although the source was not leaking, it was contaminated. Thus, the one leaking source had contaminated all three sources. The cause of the source failure was unknown; no obvious rupture or weld failure was noted. The original leak test performed by the licensee (manufacturer) after encapsulating the Cs-137 source showed no leakage. A pinhole leak became evident later. Repair of the source was impractical and it was removed from service pending disposal. The process that produced the leaking source is under review and no new capsules of that type will be manufactured until authorization is received. In the future, Computalog will wipe test sources received as well as the outside of the packages.

Event Date: 11/16/2000

Date Reported to Agreement State: 12/14/2000

Discovery Date: 12/12/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: CA-1509-19

Name: ISOTOPE PRODUCTS LABORATORIES

NRC Docket Number: NA

City: BURBANK

NRC Program Code: NA

State: CALIFORNIA

NRC Region: 4

Zip Code: 91504

Site of Event:

Site Name: BURBANK

State: CALIFORNIA

Additional Involved Party:

License Number: TX-L00747

Name: COMPUTALOG WIRELINE PRODUCTS

NRC Docket Number: NA

City: FORT WORTH

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 76140

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

EQP - EQUIPMENT

LKS - LEAKING SOURCE

Event Cause:

EQP

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Old Cause: DEFECTIVE OR FAILED MATERIAL

LKS

EQUIPMENT FAILURE / DEFECTIVE OR FAILED PART

Old Cause: DEFECTIVE OR FAILED MATERIAL

Event IAEA Aggregate Category:

EQP

IAEA Aggregate Category: 4

LKS

IAEA Aggregate Category: 4

Corrective Actions Information:

EQP

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

LKS

EQUIPMENT RETURNED TO MANUFACTURER FOR REPAIR OR DISPOSAL

Source of Radiation:

EQP

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.045 Ci (45 mCi or 1.665 GBq)
Model Number:	A-3000	IAEA Category:	4
Serial Number:	NR		

LKS

Source Number: 1

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.045 Ci (45 mCi or 1.665 GBq)
Model Number:	A-3000	IAEA Category:	4
Serial Number:	NR	Leak Test Result:	NR

Reporting Requirements:

EQP

30.50(b)(2)(ii) - old - (SUPERSEDED) EQUIPMENT IS DISABLED OR FAILS TO FUNCTION AS DESIGNED WHEN THE EQUIPMENT IS REQUIRED TO BE AVAILABLE AND OPERABLE WHEN IT IS DISABLED OR FAILS TO FUNCTION.

39.77(b) - Theft or loss of radioactive material, radiation overexposures, excessive levels and concentrations of radiation for events involving well logging operations.

LKS

39.35(d)(1) - Well logging source leak test revealed the presence of 185 Bq (0.005 uCi) or more of removable radioactive material.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
CA-XCA35	06/11/2001		AGREEMENT STATE EVENT REPORT
TX01Q1I07688	09/12/2001		AGREEMENT STATE EVENT REPORT
TX-I-7688	12/13/2001		AGREEMENT STATE EVENT REPORT
LTR040902	09/08/2004		AGREEMENT STATE LETTER

Narrative:

The licensee reported the loss of a 111 GBq (3 Ci) Am-Be source down-hole. The licensee will set a cast iron bridge plug as deep as possible, mix and pump a cement plug, and place a plaque on the well stating the depth of the lost source. The licensee stated that the source was either manufactured by Gulf Nuclear (model 71-1), Gamma Industries (model NB-HP), or NSSI (model AN-HP).

Event Date: 05/08/2001

Date Reported to Agreement State: 05/09/2001

Discovery Date: 05/08/2001

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-7125-L01

Name: COMBINED TECHNICAL SERVICES

NRC Docket Number: NA

City: HARVEY

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: NR

Site of Event:

Site Name: HARVEY

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: N

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 3 Ci (111 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NR

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA010007	06/07/2001		AGREEMENT STATE EVENT REPORT
LTR010509	06/07/2001		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #8628NK-1), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2007GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #QQ-832 and QQ-844). The well is located at West Cameron Block 504 and is operated by Coastal Oil & Gas Corporation. The Am-Be source is located at a measured depth of 10,069 feet (vertical depth of 9,235 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 10,027 feet (vertical depth of 9,203 feet). The total measured depth of the well is 10,122 feet (vertical depth of 9,276 feet). The measured depth to the top of the cement abandonment plug is 9,750 feet (vertical depth of 8,993 feet). A permanent warning plaque will be placed on the well head.

Event Date: 03/31/2001

Date Reported to Agreement State:

Discovery Date: 03/31/2001

Date Reported to NRC: 04/05/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: WEST CAMERON BLOCK 504

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY13

IAEA Category: 3

Serial Number: 8628NK-1

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2007GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-832		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.000005 Ci (5 µCi or 185 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	QQ-844		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML011140231	05/04/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 370 GBq (10 Ci) Am-Be source (serial #A0339), and a 63 GBq (1.7 Ci) Cs-137 source (serial #A2029). Multiple recovery attempts were made from 3/16/2001 to 3/19/2001. The well is located offshore Louisiana at West Delta Block 122 and is operated by Vastar Resources, Incorporated. The Am-Be source is located at a measured depth of 18,045 feet and the Cs-137 source is located at a measured depth of 18,047 feet. The total measured depth of the well is 18,166 feet. The measured depth to the top of the cement abandonment plug is 17,447 feet. A permanent warning plaque will be placed on the well head.

Event Date: 03/16/2001

Date Reported to Agreement State:

Discovery Date: 03/16/2001

Date Reported to NRC: 03/19/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: WEST DELTA BOLCK 122

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: A2029

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: A0339

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML011100552	05/03/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at East Cameron Block 139 and is operated by Spinnaker. The first source contained 185 GBq (5 Ci) of Am-Be (serial #NSA-4108) and is located at a measured depth of 7,635 feet (total vertical depth of 7,634 feet). The second source contained 74 GBq (2 Ci) of Cs-137 (serial #DLS-2528) and is located at a measured depth of 7,641 feet (total vertical depth of 7,640). The measured depth of the well is 7,726 feet (total vertical depth of 7,725 feet). The top of cement plug is at a measured depth of 3,084 feet. A warning plaque will be mounted on the wellhead.

Event Date: 01/09/2001

Date Reported to Agreement State:

Discovery Date: 01/09/2001

Date Reported to NRC: 02/12/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EAST CAMERON BLOCK 139

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NSA-4108

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: DLS-2528

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010212	04/05/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at South Pass Block 38 and is operated by Basin Exploration, Incorporated. The first source contained 685 GBq (18.5 Ci) of Am-Be (Gammatron model AN-HP, serial #DNS-146) and is located at a measured depth of 14,451 feet. The second source contained 55.5 GBq (1.5 Ci) of Cs-137 (Amersham model CDC.CY6, serial #2543GW) and is located at a measured depth of 14,432 feet. The measured depth of the well is 15,248 feet. The top of cement plug is at a measured depth of 12,261 feet. A warning plaque will be mounted on the wellhead. The sources were abandoned in accordance with Railroad Commission of Texas Rule 35 and Texas Regulations for Control of Radiation, 25 TAC 289.253.

Event Date: 01/16/2001

Date Reported to Agreement State:

Discovery Date: 01/16/2001

Date Reported to NRC: 01/27/2001

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH PASS BLOCK 38

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 18.5 Ci (684.5 GBq)

Model Number: AN-HP

IAEA Category: 2

Serial Number: DSN-146

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-135

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: NA

Serial Number: 2543GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010228	03/23/2001		LICENSEE REPORT
ML010720035	03/23/2001		LICENSEE REPORT
TX-I-7699	12/14/2001		AGREEMENT STATE EVENT REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at High Island Block 202 and is operated by Spinnaker Exploration Company LLC of Houston, Texas. The first source contained 296 GBq (8 Ci) of Am-Be (Gammatron model AN-HP, serial #DNS-032) and is located at a measured depth of 14,139 feet (total vertical depth of 13,116 feet). The second source contained 55.5 GBq (1.5 Ci) of Cs-137 (Amersham model CDC.CY6, serial #2761GW) and is located at a measured depth of 14,146 feet (total vertical depth of 13,120 feet). The measured depth of the well is 14,299 feet (total vertical depth of 13,205 feet). The top of cement plug is at a measured depth of 9,400 feet (total vertical depth of 9,398 feet). A warning plaque will be mounted on the wellhead.

Event Date: 12/19/2000

Date Reported to Agreement State:

Discovery Date: 12/19/2000

Date Reported to NRC: 12/27/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: HIGH ISLAND BLOCK 202

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-032

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2761GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010111	03/20/2001		LICENSEE REPORT
ML010160475	01/29/2002		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at Eugene Island Block 338 and is operated by Texaco Exploration and Production of New Orleans, Louisiana. The first source contained 185 GBq (5 Ci) of Am-Be (serial #NSA-4076) and is located at a measured depth of 7,762 feet (total vertical depth of 5,391 feet). The second source contained 74 GBq (2 Ci) of Cs-137 (serial #SAG-1127) and is located at a measured depth of 7,770 feet (total vertical depth of 5,395 feet). The measured depth of the well is 7,828 feet (total vertical depth of 5,428 feet). The top of the cement plug is at a measured depth of 5,338 feet. A warning plaque will be mounted on the wellhead.

Event Date: 12/05/2000

Date Reported to Agreement State:

Discovery Date: 12/05/2000

Date Reported to NRC: 12/08/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EUGENE ISLAND BLOCK 338

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NSA-4076

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: SAG-1127

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR010103	03/14/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at Grand Isle Block 90 and is operated by Vastar Resources, Incorporated. The first source contained 370 GBq (10 Ci) of Am-Be (serial #A2051) and is located at a measured depth of 14,505 feet. The second source contained 62.9 GBq (1.7 Ci) of Cs-137 (serial #A0129) and is located at a measured depth of 14,503 feet. The measured depth of the well is 15,656 feet. The top of cement plug is at a measured depth of 13,950 feet. A warning plaque will be mounted on the wellhead.

Event Date: 11/16/2000

Date Reported to Agreement State:

Discovery Date: 11/16/2000

Date Reported to NRC: 11/22/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: GRAND ISLE BLOCK 90

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: A2051

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: A0129

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR001208	03/14/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at South Pass Block 49 and is operated by Chevron of New Orleans, Louisiana. The first source contained 685 GBq (18.5 Ci) of Am-Be (Amersham model AMN.CY1, serial #4901NE) and is located at a measured depth of 13,741 feet (total vertical depth of 9,191 feet). The second source contained 55.5 GBq (1.5 Ci) of Cs-137 (Amersham model CDC.CY3, serial #2242GW) and is located at a measured depth of 13,760 feet (total vertical depth of 9,234 feet). The measured depth of the well is 13,875 feet (total vertical depth of 9,324 feet). The top of cement plug is at a measured depth of 4,050 feet. A warning plaque will be mounted on the wellhead.

Event Date: 11/05/2000

Date Reported to Agreement State:

Discovery Date: 11/05/2000

Date Reported to NRC: 11/16/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-01068-07

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03006392

City: HOUSTON

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77032

Site of Event:

Site Name: SOUTH PASS BLOCK 49

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 18.5 Ci (684.5 GBq)

Model Number: AMN.CY1

IAEA Category: 2

Serial Number: 4901NE

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY3

IAEA Category: 4

Serial Number: 2242GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR001116	03/14/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at East Cameron Block 192 and is operated by Coastal Oil and Gas. The first source contained 185 GBq (5 Ci) of Am-Be (serial #NSL-4110) and is located at a measured depth of 6,387 feet (total vertical depth of 3,787 feet). The second source contained 74 GBq (2 Ci) of Cs-137 (serial #DLS-1119) and is located at a measured depth of 6,396 feet (total vertical depth of 3,790 feet). The measured depth of the well is 6,505 feet (total vertical depth of 3,828 feet). The top of cement plug is at a measured depth of 4,025 feet. A warning plaque will be mounted on the wellhead.

Event Date: 11/01/2000

Date Reported to Agreement State:

Discovery Date: 11/01/2000

Date Reported to NRC: 11/03/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27437-01

Name: BAKER HUGHES OILFIELD OPERATIONS, INC.

NRC Docket Number: 03032818

City: BROUSSARD

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: EAST CAMERON BLOCK 192

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: NSL-4110

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: DLS-1119

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR001129	03/13/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Alaska at South Pad, Prudhoe Bay, Alaska, and is operated by BP Exploration-Alaska, Incorporated. The first source contained 148 GBq (4 Ci) of Am-Be (Amersham model AMN.CY17, serial #7950NK) and is located at a measured depth of 8,531 feet (total vertical depth of 4,867 feet). The second source contained 74 GBq (2 Ci) of Cs-137 (Amersham model CDC.CY13, serial #1975GW) and is located at a measured depth of 8,565 feet (total vertical depth of 4,882 feet). The measured depth of the well is 8,688 feet (total vertical depth of 4,938 feet). The top of cement plug is at a measured depth of 8,476 feet (total vertical depth of 4,900 feet). A warning plaque will be mounted on the wellhead.

Event Date: 10/04/2000

Date Reported to Agreement State:

Discovery Date: 10/04/2000

Date Reported to NRC: 10/31/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: SOUTH PAD PRUDHOE BAY

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 7950NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 1975GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR001031	03/13/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at West Delta Block 109 and is operated by Texaco Exploration and Production of New Orleans, Louisiana. The first source contained 296 GBq (8 Ci) of Am-Be (Gammatron model AN-HP, serial #DNS-054) and is located at a measured depth of 5,414 feet (total vertical depth of 3,404 feet). The second source contained 55.5 GBq (1.5 Ci) of Cs-137 (Amersham model CDC.CY6, serial #2463GW) and is located at a measured depth of 5,420 feet (total vertical depth of 3,406 feet). The measured depth of the well is 8,760 feet (total vertical depth of 4,486 feet). The top of cement plug is at a measured depth of 4,465 feet (total vertical depth of 3,048 feet). A warning plaque will be mounted on the wellhead.

Event Date: 10/25/2000

Date Reported to Agreement State:

Discovery Date: 10/25/2000

Date Reported to NRC: 10/27/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: WEST DELTA BLOCK 109

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-054

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2463GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR001031	03/13/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable sealed radiation sources in a well. The well is located offshore Louisiana at High Island Block A-7 and is operated by Spinnaker Exploration Company LLC of Houston, Texas. The first source contained 296 GBq (8 Ci) of Am-Be (Gammatron model AN-HP, serial #DNS-009) and is located at a measured depth of 15,144 feet (total vertical depth of 13,913 feet). The second source contained 55.5 GBq (1.5 Ci) of Cs-137 (Amersham model CDC.CY6, serial #2648GW) and is located at a measured depth of 15,149 feet (total vertical depth of 13,917 feet). The measured depth of the well is 15,242 feet (total vertical depth of 13,997 feet). Two cement plugs were placed in the well; the top of first plug is at a measured depth of 15,266 feet and the top of the second plug is at a measured depth of 13,305 feet. A warning plaque will be mounted on the wellhead.

Event Date: 10/20/2000

Date Reported to Agreement State:

Discovery Date: 10/20/2000

Date Reported to NRC: 10/29/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 17-27623-01

Name: PATHFINDER ENERGY SERVICES, INC.

NRC Docket Number: 03034946

City: LAFAYETTE

NRC Program Code: 03111

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: HIGH ISLAND BLOCK A-7

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-009

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2648GW

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NA

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
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LTR001106	03/13/2001		LICENSEE REPORT
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Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #3976NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2569GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #NN-282 and NN-286). Multiple recovery attempts were made from 8/1/2000 to 8/6/2000. The well is located offshore Texas at Garden Banks block 580 and is operated by McMoran Oil & Gas. The Am-Be source is located at a measured depth of 8,649 feet (vertical depth of 8,599 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 8,658 feet (vertical depth of 8,608 feet). The total measured depth of the well is 9,732 feet (vertical depth of 9,657 feet). The measured depth to the top of the cement abandonment plug is 7,725 feet (vertical depth of 7,704 feet). A permanent warning plaque will be placed on the well head.

Event Date: 08/01/2000

Date Reported to Agreement State:

Discovery Date: 08/01/2000

Date Reported to NRC: 08/04/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: GARDEN BANKS BLOCK 580

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 3976NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 2569GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-282		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	NN-286		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR000822	02/28/2001		LICENSEE REPORT
LTR000907	02/28/2001		LICENSEE REPORT
ML003748844	11/05/2001		LICENSEE REPORT

Narrative:

The licensee (dba Dresser Industries) reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #3990NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #2448GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #MM-347 and MM-361). Multiple recovery attempts were made from 6/23/2000 to 6/29/2000. The well is located offshore Texas at High Island block A-18 and is operated by Spinnaker Exploration. The Am-Be source is located at a measured depth of 8,137 feet (vertical depth of 6,432 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 8,147 feet (vertical depth of 6,439 feet). The total measured depth of the well is 8,230 feet (vertical depth of 6,498 feet). The measured depth to the top of the cement abandonment plug is 7,580 feet (vertical depth of 6,039 feet). A permanent warning plaque will be placed on the well head.

Event Date: 06/23/2000

Date Reported to Agreement State:

Discovery Date: 06/23/2000

Date Reported to NRC: 06/27/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: HIGH ISLAND BLOCK A-18

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 3990NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: AMN.CY13

IAEA Category: 4

Serial Number: 2448GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	MM-347		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	MM-361		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR000802	02/28/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located in West Cameron block 49, offshore Louisiana, and is operated by Cheniere Energy, Incorporated, of Houston, Texas. The sources include a 55.5 GBq (8 Ci) Cs-137 source (Amersham model CDC.CY6, serial #2468-GW) and a 296 GBq (8 Ci) Am-Be source (Gammatron model AN-HP, serial #DNS-028). The Am-Be source is located at a depth of 10,463 feet and the Cs-137 source is located at a depth of 10,470 feet. The depth of the well is 10,959 feet. The top of the cement plug is at a depth of 10,235 feet. A warning plaque was attached to the well.

Event Date: 09/28/2000

Date Reported to Agreement State: 09/28/2000

Discovery Date: 09/28/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-9089-L01

Name: PATHFINDER ENERGY SERVICES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77041

Site of Event:

Site Name: WEST CAMERON BLOCK 49

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 1.5 Ci (55.5 GBq)

Model Number: CDC.CY6

IAEA Category: 4

Serial Number: 2468GW

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: GAMMATRON

Activity: 8 Ci (296 GBq)

Model Number: AN-HP

IAEA Category: 3

Serial Number: DNS-028

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000015	11/17/2000		AGREEMENT STATE EVENT REPORT
LTR001005	11/17/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located in Terrebonne Parish, Louisiana, and is operated by Castex Energy, Incorporated. The sources include a 592 GBq (16 Ci) Am-Be source (serial #2235) and a 62.9 GBq (1.7 Ci) Cs-137 source (serial #1766). Multiple recovery attempts were made from 9/10 through 9/12/2000, which were unsuccessful. The Am-Be source is located at a depth of 4,732 feet and the Cs-137 source is located at a depth of 4,743 feet. The depth of the well is 14,052 feet. The top of the cement plug is estimated to be at a depth of 3,000 feet. A warning plaque was ordered and will be attached to the well.

Event Date: 09/15/2000

Date Reported to Agreement State: 09/15/2000

Discovery Date: 09/15/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: TERREBONNE PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 1766

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 2235

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000014	11/17/2000		AGREEMENT STATE EVENT REPORT
LTR001009	11/17/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources; a 666 GBq (18 Ci) Am-Be source, a 74 GBq (2 Ci) Cs-137 source, and a 29.6 kBq (0.8 µCi) Cs-137 source. The tool containing the sources was stuck in the well on 9/23/2000 and multiple recovery attempts were made from 9/24/2000 to 10/5/2000. The licensee was authorized to abandon the sources. The well is located at Assumption Parish, Louisiana, (Lake Verret Field) and is operated by Southwestern Energy Production Company. The sources are located at a depth of 13,312 feet. The total depth of the well is 13,595 feet. There is a concrete plug over the sources that runs from 13,050 feet to 12,550 feet, with the bottom 100 feet tagged with red cement. All appropriate measures were taken in abandoning the well containing the sources. A permanent plaque was attached to the wellhead.

Event Date: 09/23/2000

Date Reported to Agreement State: 10/06/2000

Discovery Date: 09/23/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2187-L01

Name: BAKER HUGHES OILFIELD OPERATIONS

NRC Docket Number: NA

City: BROUSSARD

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70518

Site of Event:

Site Name: ASSUMPTION PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18 Ci (666 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000011	10/25/2000		AGREEMENT STATE EVENT REPORT
LTR001006	10/25/2000		LICENSEE REPORT
LTR001009	10/25/2000		LICENSEE REPORT
LTR001010	10/25/2000		LICENSEE REPORT
LTR001011	10/25/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of three irretrievable well logging sources; a 666 GBq (18 Ci) Am-Be source, a 74 GBq (2 Ci) Cs-137 source, and a 29.6 kBq (0.8 µCi) Cs-137 source. The tool containing the sources was stuck in the well on 8/22/2000 and multiple recovery attempts were made from 8/22/2000 to 8/29/2000. The licensee was authorized to abandon the sources. The well is located at Iberia Parish, Louisiana, and is operated by Manti Operating Company. The sources are located at a depth of 9,810 feet. The total depth of the well is 9,912 feet. There is a concrete plug over the sources that runs from 9,120 feet to 9,670. All appropriate measures were taken in abandoning the well containing the sources. A permanent plaque was attached to the wellhead.

Event Date: 08/22/2000

Date Reported to Agreement State: 08/28/2000

Discovery Date: 08/22/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: HOUSTON

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77011

Site of Event:

Site Name: IBERIA PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 18 Ci (666 GBq)

Model Number: NR

IAEA Category: 2

Serial Number: NR

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NR

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	NR	Activity:	0.0000008 Ci (800 nCi or 29.6 kBq)
Model Number:	NR	IAEA Category:	5
Serial Number:	NR		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000009A	09/26/2000		AGREEMENT STATE EVENT REPORT
LTR000915	09/26/2000		LICENSEE REPORT
LA000009	09/28/2000		AGREEMENT STATE EVENT REPORT
LTR000829	09/28/2000		OTHER
LTR000830	09/28/2000		LICENSEE REPORT
LA000013	11/17/2000		AGREEMENT STATE EVENT REPORT
LTR000918	11/17/2000		LICENSEE REPORT
LTR001002	11/17/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located at West White Lake, Vermilion Parish, Louisiana. The sources include a 592 GBq (16 Ci) Am-Be source (serial #1665) and a 62.9 GBq (1.7 Ci) Cs-137 source (serial #1892). Two joints of 4.5 inch drill pipe were also lost in the hole above the sources during fishing and will serve as the deflection device for the sources. Multiple recovery attempts were made from 8/15 through 8/25/2000, which were unsuccessful. The Am-Be source is located at a depth of 11,269 feet and the Cs-137 source is located at a depth of 11,282 feet. The depth of the well is 13,570 feet. A 5.5 inch casing was cemented into the well with cement from 9,450 feet to 6,300 feet. A casing shoe and a cement float collar were used at the bottom of the casing. A warning plaque was ordered and will be attached to the well.

Event Date: 08/25/2000

Date Reported to Agreement State: 08/25/2000

Discovery Date: 08/25/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: VERMILION PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 16 Ci (592 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: 1665

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: 1892

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000006A	09/19/2000		AGREEMENT STATE EVENT REPORT
LTR000908	09/19/2000		AGREEMENT STATE LETTER
LA000006	09/28/2000		AGREEMENT STATE EVENT REPORT
LTR000825	09/28/2000		AGREEMENT STATE LETTER

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 185 GBq (5 Ci) Am-Be source (serial #DLS 1037) and a 74 GBq (2 Ci) Cs-137 source (serial #NLS 4096). The tool containing the sources was stuck in hole on 7/1/2000 and multiple recovery attempts were made from 7/2/2000 to 7/15/2000. The licensee was authorized to abandon the sources. The well is located at Evangeline Parish, Louisiana, in the Ville Platte field and is operated by Vintage Petroleum Incorporated. The Am-Be source is located at a depth of 9,175 feet. The Cs-137 source is located at a depth of 9,168 feet. The total depth of the well is 9,736 feet. There is a concrete plug over the sources at a measured depth of 7,829 feet. All appropriate measures were taken in abandoning the well containing the sources.

Event Date: 07/01/2000

Date Reported to Agreement State: 08/14/2000

Discovery Date: 07/01/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-6025-L01

Name: BAKER HUGHES

NRC Docket Number: NA

City: LAFAYETTE

NRC Program Code: NA

State: LOUISIANA

NRC Region: 4

Zip Code: 70508

Site of Event:

Site Name: VILLE PLATTE

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: Y

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 5 Ci (185 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: DLS-1037

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 2 Ci (74 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: NLS-4096

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LA000005	08/23/2000		AGREEMENT STATE EVENT REPORT
LTR000814	08/23/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of four irretrievable well logging sources; a 148 GBq (4 Ci) Am-Be source (Amersham model AMN.CY17, serial #8631NK), a 74 GBq (2 Ci) Cs-137 source (Amersham model CDC.CY13, serial #1916GW), and two 18.5 kBq (0.5 µCi) Cs-137 sources (Isotope Products model 3024, serial #E296 and E298). Multiple recovery attempts were made from 5/28/2000 to 6/1/2000. The well is located at West Cameron block 164 and is operated by Basin Exploration, Incorporated. The Am-Be source is located at a measured depth of 9,676 feet (total vertical depth of 9,383 feet) and the 74 GBq (2 Ci) Cs-137 source is located at a measured depth of 9,686 feet (total vertical depth of 9,389 feet). The measured depth of the well is 10,983 feet (total vertical depth of 10,286 feet). The depth to the top of the cement abandonment plug is 8,470 feet. A permanent plaque will be placed on the well head as soon as possible.

Event Date: 05/28/2000

Date Reported to Agreement State:

Discovery Date: 05/28/2000

Date Reported to NRC: 06/02/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-26844-01

Name: HALLIBURTON ENERGY SERVICES

NRC Docket Number: 03029470

City: HOUSTON

NRC Program Code: 03111

State: TEXAS

NRC Region: 4

Zip Code: 77205

Site of Event:

Site Name: WEST CAMERON BLOCK 164

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 4 Ci (148 GBq)

Model Number: AMN.CY17

IAEA Category: 3

Serial Number: 8631NK

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: AMERSHAM

Activity: 2 Ci (74 GBq)

Model Number: CDC.CY13

IAEA Category: 4

Serial Number: 1916GW

Source Number: 3

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	E296		

Source Number: 4

Source/Radioactive Material:	SEALED SOURCE WELL LOGGING	Radionuclide:	CS-137
Manufacturer:	ISOTOPE PRODUCTS LAB	Activity:	0.0000005 Ci (500 nCi or 18.5 kBq)
Model Number:	3024	IAEA Category:	5
Serial Number:	E298		

Device/Associated Equipment:

LAS

Device Number: 1

Device Name:	WELL LOGGING TOOL	Model Number:	NR
Manufacturer:	NR	Serial Number:	NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR000623	08/22/2000		LICENSEE REPORT
ML003726279	07/09/2001		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of two irretrievable well logging sources; a 592 GBq (16 Ci) Am-Be source (Amersham model QSR-J, serial #2669) and a 62.9 GBq (1.7 Ci) Cs-137 source (Gammatron model NCR-F, serial #1819). Multiple recovery attempts were made from 6/3/2000 to 6/12/2000. The licensee requested permission to abandon the sources. The well is located offshore Louisiana at Eugene Island block 147 and is operated by Petroquest Energy, Incorporated. The Am-Be source is located at a depth of 13,416 feet. The Cs-137 source is located at a depth of 13,434 feet. The total depth of the well is 15,125 feet. There is a 513-foot concrete plug over the sources. A permanent plaque will be placed on the well head as soon as possible

Event Date: 06/03/2000

Date Reported to Agreement State:

Discovery Date: 06/03/2000

Date Reported to NRC: 06/12/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-27055-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03032023

City: SUGAR LAND

NRC Program Code: 03120

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: EUGENE ISLAND BLOCK 147

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 2

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: AMERSHAM

Activity: 16 Ci (592 GBq)

Model Number: QSR-J

IAEA Category: 3

Serial Number: 2669

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: GAMMATRON

Activity: 1.7 Ci (62.9 GBq)

Model Number: NCR-F

IAEA Category: 4

Serial Number: 1819

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR000626	08/22/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located at Mississippi Canyon Block 28 approximately 45 miles offshore Louisiana, and is operated by BP Amoco, Incorporated. The sources include a 370 GBq (10 Ci) Am-Be source (model NSR-M, serial #A02091) and a 62.9 GBq (1.7 Ci) Cs-137 source (model GSR-J, serial #A0128). Multiple recovery attempts were made from 5/2 through 5/7/2000, which were unsuccessful. The Am-Be source is located at a depth of 12,925 feet and the Cs-137 source is located at a depth of 12,925 feet. The depth of the well is 13,054 feet and the depth of the top of the cement abandonment plug is 12,274 feet. A warning plaque was ordered and will be attached to the well.

Event Date: 05/05/2000

Date Reported to Agreement State:

Discovery Date: 05/05/2000

Date Reported to NRC: 05/05/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-00090-03

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03006388

City: SUGAR LAND

NRC Program Code: 03110

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: MISSISSIPPI CANYON

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NSR-M

IAEA Category: 3

Serial Number: A02091

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-J

IAEA Category: 4

Serial Number: A0128

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
LTR000602	07/25/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located at Iberia Parish, Louisiana, and is operated by Texaco Exploration and Production, Incorporated. The sources include a 370 GBq (10 Ci) Am-Be source (serial #A89) and a 62.9 GBq (1.7 Ci) Cs-137 source (serial #A2007). Multiple recovery attempts were made from 3/17/2000 through 3/28/2000, which were unsuccessful. Both sources are located at a depth of approximately 9,500 feet. The depth of the well is 11,810 feet and the depth of the top of the cement abandonment plug is 5,600 feet. A warning plaque was ordered and will be attached to the well.

Event Date: 03/28/2000

Date Reported to Agreement State: 05/08/2000

Discovery Date: 03/28/2000

Date Reported to NRC:

Licensee/Reporting Party Information:

Regulated By: AGREEMENT STATE

Reciprocity: NONE

License Number: LA-2783-L01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: NA

City: SUGAR LAND

NRC Program Code: NA

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: IBERIA PARISH

State: LOUISIANA

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: Y

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State:

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: NR

IAEA Category: 4

Serial Number: A2007

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NR

IAEA Category: 3

Serial Number: A89

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Manufacturer: NR

Model Number: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
FAX000508	06/07/2000		AGREEMENT STATE EVENT REPORT
LA000002	06/07/2000		AGREEMENT STATE EVENT REPORT
LTR000418	06/07/2000		LICENSEE REPORT

Narrative:

The licensee reported the abandonment of irretrievable sealed radiation sources in a well. The well is located at High Island Block 196 offshore Texas, and is operated by EXXON Company USA. The sources include a 370 GBq (10 Ci) Am-Be source (model NSR-U, serial #N0338) and a 62.9 GBq (1.7 Ci) Cs-137 source (model GSR-Z, serial #A2078). Multiple recovery attempts were made from 12/21/1999 through 1/26/2000, which were unsuccessful. The Am-Be source is located at a depth of 15,234 feet and the Cs-137 source is located at a depth of 15,235 feet. The depth of the well is 15,285 feet and the depth of the top of the cement abandonment plug is 11,500 feet. A warning plaque was ordered and will be attached to the well.

Event Date: 01/27/2000

Date Reported to Agreement State:

Discovery Date: 01/27/2000

Date Reported to NRC: 01/31/2000

Licensee/Reporting Party Information:

Regulated By: NRC

Reciprocity: NONE

License Number: 42-27055-01

Name: SCHLUMBERGER TECHNOLOGY CORP.

NRC Docket Number: 03032023

City: SUGAR LAND

NRC Program Code: 03120

State: TEXAS

NRC Region: 4

Zip Code: 77478

Site of Event:

Site Name: HIGH ISLAND BLOCK 196

State: OFFSHORE

Additional Involved Party:

License Number: NA

Name: NA

NRC Docket Number: NA

City: NA

NRC Program Code: NA

State: NA

NRC Region: NA

Zip Code: NA

Other Information:

NRC Reportable Event: Y

Abnormal Occurrence: N

Agreement State Reportable Event: N

Investigation: N

Atomic Energy Act Material: Y

NMED Record Complete: Y

Consultant Hired: N

Event Closed by Region/State: Y

Event Type:

LAS - LOST/ABANDONED/STOLEN

Event Cause:

LAS

OTHER / WELL LOGGING SOURCE ABANDONED DOWNHOLE

Old Cause: WELL LOGGING SOURCE ABANDONED DUE TO WELL LOGGING OPERATION

Event IAEA Aggregate Category:

LAS

IAEA Aggregate Category: 3

Corrective Actions Information:

LAS

SOURCE ABANDONED ACCORDING TO PROCEDURE

Source of Radiation:

LAS

Source Number: 1

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: CS-137

Manufacturer: NR

Activity: 1.7 Ci (62.9 GBq)

Model Number: GSR-Z

IAEA Category: 4

Serial Number: A2078

Source Number: 2

Source/Radioactive Material: SEALED SOURCE WELL LOGGING

Radionuclide: AM-BE

Manufacturer: NR

Activity: 10 Ci (370 GBq)

Model Number: NSR-U

IAEA Category: 3

Serial Number: N0338

Device/Associated Equipment:

LAS

Device Number: 1

Device Name: WELL LOGGING TOOL

Model Number: NR

Manufacturer: NR

Serial Number: NR

Reporting Requirements:

LAS

39.77(d) - Irretrievable well logging source.

References:

Reference Number:	Entry Date:	Retraction Date:	Type of Report:
ML003681859	03/08/2000		LICENSEE REPORT
LTR000131	04/03/2000		LICENSEE REPORT