

Schlumberger Technology Corporation
Radiation Explosives Compliance
300 Schlumberger Drive, MD 121
Sugar Land, TX 77478



September 14, 2015

Jack Whitten
United States Nuclear Regulatory Commission
Region IV
1600 East Lamar Blvd
Arlington, Texas 76011

RE: Source Abandonment for Chevron USA (Deepwater Projects and Exploration) OCS-G 20082 PS009 ST00BP00

Dear Jack,

This letter is to confirm the abandonment of irretrievable radioactive logging sources in a well in accordance with 10 CFR §39.77(d). Information for this abandonment is attached.

Licensee: Schlumberger Technology Corporation (License# 42-00090-03)

If you have any questions or require additional information, please contact me at 281-285-8775 or mclaughlin8@slb.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Timothy P. McLaughlin".

Timothy P. McLaughlin
Radiation Safety Officer
Schlumberger Technology Corporation

Source Abandonment - Chevron USA (Deepwater Projects and Exploration)

Well: OCS-G 20082 PS009 ST00BP00

Date of Occurrence: Declared irretrievable: August 21, 2015

Source #1

Identification: 1.7 Ci, Cs 137, Gamma Ray Source, Serial # A3396

Manufacturer: QSA Global

Model: GSR-Z

Depth: 27,092 ft MD

Source #2

Identification: 10 Ci, Am 241 Be, Neutron Source, Serial # Q1359

Manufacturer: QSA Global

Model: NSR-U

Depth: 27,096 ft MD

Well Identification Company: Chevron USA (Deepwater Projects and Exploration)

Well: OCS-G 20082 PS009 ST00BP00

Field: Green Canyon 640

County: Offshore

API Number: 608114064800

Seal Results: Several cement plugs were pumped in order to isolate the sources and the bottom-hole-assembly (BHA) and to prepare for sidetracking the well. Overall, the final cement plug was placed from 26,005 ft MD to the top of the fish @ 26,864 ft MD, thereby providing over 800 linear feet of cement in the wellbore. The BHA will serve as a deflection device to help prevent further intrusion into this portion of the well.

Recovery Attempts: Upon differentially sticking the drillpipe, the rig began jarring attempts in both directions and tried to work the drillpipe up and down while rotating. The pipe became mechanically stuck and a free-point indicator tool was run to determine this depth. The free drillpipe was severed above this point and retrieved, leaving a top of fish @ 26,864 ft MD and approximately 228 feet of drillpipe, BHA, and logging tools with sources in the wellbore.

Depth of Well: 27,250 ft MD

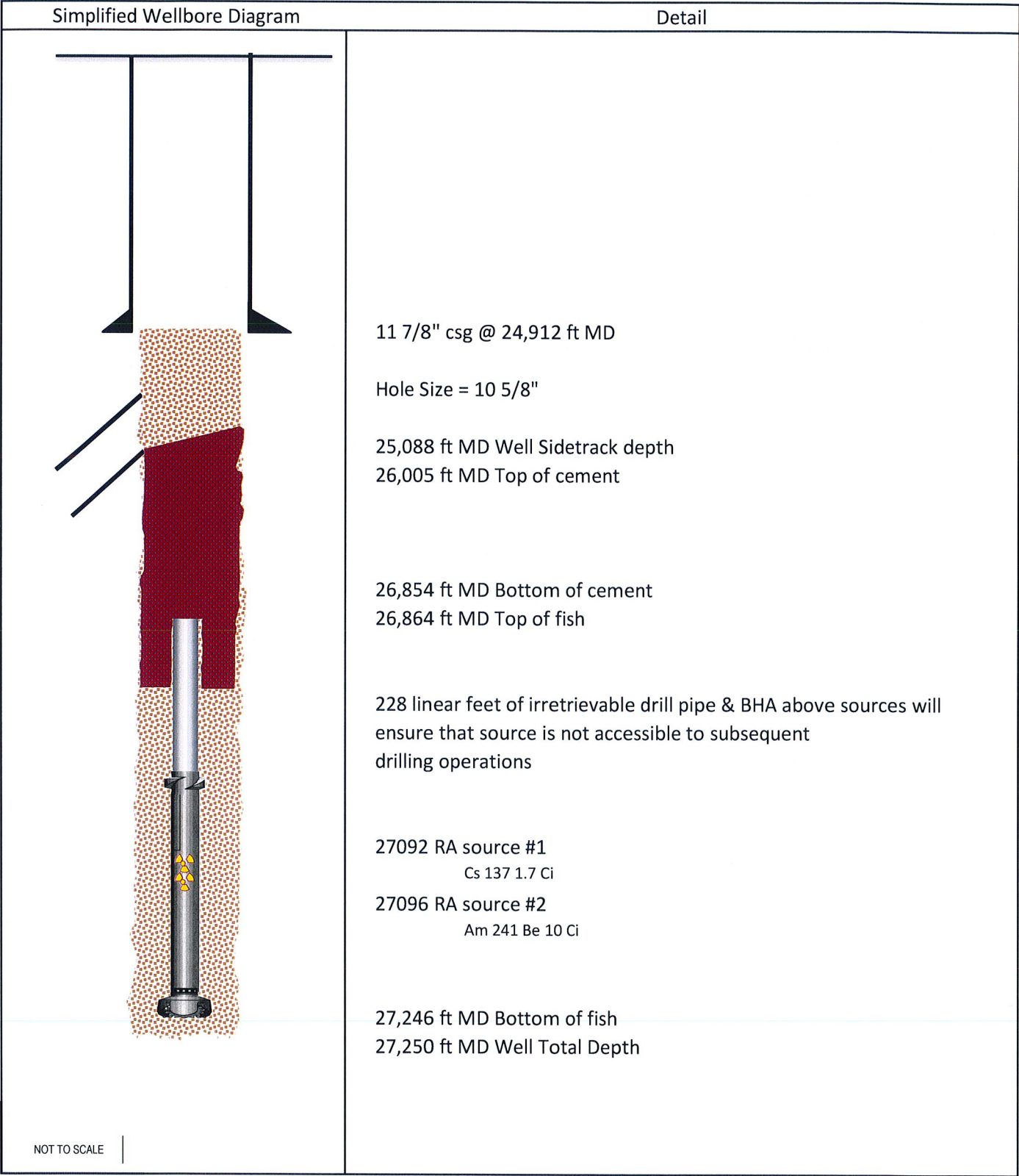
Identification Plaque as required by 10 CFR §39.15(a)(5)(iii) will be provided for attachment to wellhead, if practical.

Reports: No other agency will receive a copy of this report.

Initial Contact: By telephone with Jack Whitten on August 21, 2015 04:15 PM.

Chevron USA (Deepwater Projects and Exploration)

OCS-G 20082 PS009 ST00BP00



**QSA GLOBAL****QSA Global, Inc.**

40 North Avenue

Burlington, MA 01803

Telephone: (781) 272-2000

Toll Free: (800) 815-1383

Facsimile: (781) 273-2216

Radioactive Sealed Source Certificate and Test Report

Model: CDC.CY3

Radionuclide: CS137

Nominal Activity: 1.78 Ci

Product Code No: CDCK8403

ANSI/ISO Classification: C6X646

Special Form Certificate No: USA/0650/S-96

Description: CDCK7425 CS-137 OWL SOURCE IN GSR-ZC

Capsule: X2170/1 + GSR-ZC

Classifications are based on testing of specimen sources and give the levels expected from the production sources.

Recommended Working Life: 15 Years

See other side for explanation.

Source Serial Number	Measurements		Leakage Test		Contamination Test	Other Tests Description
			Type	Type	Type	
	Measurement	Date	Date Passed	Date Passed	Date Passed	
* GSR-Z-A3396	1,270 nGy/s (1.59 Ci)	Apr-08-2013	M Apr-05-2013	D Apr-03-2013	A Oct-15-2013	

Notes:

CDCK7425 Source capsule X2170/1 passed a pressure test of 30,000 psi per SPS-L-1722 on 20 June 2013. Passed though gauge No. SCH1999/4949. Immersion test and Bubble test are on X1187 inner cell. Source model CDCK7425 is built to the specifications of SLB Model GSR-Z under drawing H408993D. CDCK8403 Source capsule passed a pressure test of 30,000 psi per SPS-L-1722 on 09 Sept. 2013. CDCK8403 is built to the specifications of SLB Model GSR-ZC under drawing S-296173D. REV AH.

Cs-134 content < 1 % of total activity.

This design has passed prototype tests at 60,000 PSI at room temperature as per QSA Test Report #165.

QSA recommends this design for use in conditions up to, but not exceeding 40,000 PSI at down hole temperatures up to 437F Made in the USA.

Customer: SCHLUMBERGER TECH C/O NSSI

Sales Order: 252848

Oct-15-2013

Signed: 

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Monitoring Services

P.O. BOX 266677 . HOUSTON, TEXAS 77207-6677 . AREA CODE 713-478-6820 . FAX 281-532-0929
leaktest1@comcast.net

SEALED SOURCE LEAK TEST CERTIFICATE

RADIATION SAFETY
SCHLUMBERGER Anadrill Loc.1004
135 ROUSSEAU ROAD

CUSTOMER #: 2138

YOUNGSVILLE

LA
70592

SOURCE #: 44935

ACCOUNT #: 2138

RADIONUCLIDE: CS-137

SOURCE CODE: GSRZ

ACTIVITY: 1.7 CI

SERIAL NO: A3396 *

WIPE DATE 6/16/2015

EFFICIENCY: 0.95

GROSS CPM: 43 BKG CPM: 17 NET CPM: 26

$\frac{\text{NET CPM}}{\text{EFF} \times 2.22 \times 10^6 \text{ DPM/u CI}} = \text{MICROCURIE}$

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0×10^{-3}) MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS: 1.23E-05 MICROCURIE

4.56E-01 Bq

ASSAY NO.: 7/18/2015 72 DATE: 7/19/2015

ASSAYED BY:

**QSA GLOBAL****QSA Global, Inc.**

40 North Avenue

Burlington, MA 01803

Telephone: (781) 272-2000

Toll Free: (800) 815-1383

Facsimile: (781) 273-2216

Radioactive Sealed Source Certificate and Test Report

Model: *AMN.CY21*Radionuclide: *AM241/BE* Nominal Activity: *10.00 Ci*Product Code No: *AMNK8333*ANSI/ISO Classification: *E6X646*Special Form Certificate No: *USA/0770/S-96*Description: *"A" AMBE X2175/1 NSR-U*Capsule: *X2175/1*

Classifications are based on testing of specimen sources and give the levels expected from the production sources.

Recommended Working Life: 15 Years

See other side for explanation.

Source Serial Number	Measurements		Leakage Test		Contamination Test	Other Tests
			Type	Type	Type	
	See other side for description of tests.					
	Measurement	Date	Date Passed	Date Passed	Date Passed	Description
NSR-UQ1359	2.15E+07 N/sec	Oct-30-2013	D Oct-30-2013		A Nov-25-2013	SC-991-8 0913-3754

Notes:

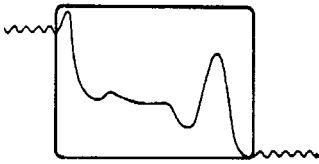
This X2175/1 source capsule has passed a pressure test of 4 x 15 minutes at 30,000 psi on 25 November 2013 per SPS-L-1717-22. Vacuum Bubble Test D is on X9083 inner capsule. Source assembled to QSA Global DWG. No. B00272 Rev. A

Customer: *SCHLUMBERGER TECH C/O NSSI*Sales Order: *266351*

Dec-02-2013

Signed: 

Page 1 of 1



Monitoring Services

P.O. BOX 266677 . HOUSTON, TEXAS 77207-6677 . AREA CODE 713-478-6820 . FAX 281-532-0929
leaktest1@comcast.net

SEALED SOURCE LEAK TEST CERTIFICATE

RADIATION SAFETY
SCHLUMBERGER Anadrill Loc.1004
135 ROUSSEAU ROAD

YOUNGSVILLE

LA
70592

CUSTOMER #: 2138

SOURCE #: 44934

ACCOUNT #: 2138

RADIONUCLIDE: AM241BE

SOURCE CODE: NSRU

ACTIVITY: 10 CI

SERIAL NO: Q1359 *

WIPE DATE 6/16/2015

EFFICIENCY: 1.32

GROSS CPM: 26 BKG CPM: 17 NET CPM: 9

NET CPM
EFF X 2.22x10⁶ DPM/u CI = MICROCURIE

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS: 3.07E-06 MICROCURIE

1.14E-01 Bq

ASSAY NO.: 7/18/2015 73 DATE: 7/19/2015

ASSAYED BY:

Schlumberger Technology Corporation
Radiation Explosives Compliance
300 Schlumberger Drive, MD 121
Sugar Land, Tx 77478



FAX

To:	Ernie Jilek	Date:	Sep 14, 2015
		Fax:	985-727-2165
From:	Timothy P. McLaughlin	Tel:	(281) 285-8775
		Fax:	(281) 285-8526
Subject:	Abandonment Plaque	Pages:	2 (including cover)

Ernie,

Request for abandonment plaque for Chevron USA (Deepwater Projects and Exploration), well information follows.

Regards,

A handwritten signature in blue ink, appearing to be "Timothy P. McLaughlin", written over the word "Regards,".

Tim

Schlumberger Technology Corporation
Radiation Explosives Compliance
300 Schlumberger Drive, MD 121
Sugar Land, Tx 77478



Graphics N' Metal
1200 Clausel Street
Mandeville, La. 70448
(504) 669-6082
(985) 727-2165

September 14, 2015

Attn: Ernie Jilek,

Please construct the standard abandonment plaque with the following information:

Company	Chevron USA (Deepwater Projects and Exploration)
Well Name	OCS-G 20082 PS009 ST00BP00
Field	Green Canyon 640

API#	608114064800
Date of abandonment	August 23, 2015
Well depth	27,250 ft MD
Plug back depth	26,854 ft MD
Top of fish	26,864 ft MD
Sources abandoned	Cs 137, 1.7 Ci, Gamma Ray Source @ 27092 Am 241 Be, 10 Ci, Neutron Source @ 27096

Special Instructions: DO NOT DRILL BELOW PLUG BACK DEPTH BEFORE CONTACTING REGION IV OF THE
NUCLEAR REGULATORY COMMISSION

Please forward the completed plaque and invoice to me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tim P. McLaughlin".

Timothy P. McLaughlin
Radiation Safety Officer
Schlumberger Technology Corporation