

Munoz, Rick

From: Vasquez, Michael
Sent: Wednesday, June 18, 2014 2:29 PM
To: Munoz, Rick
Subject: Fw: ACT: Event - Weatherford International, Inc. _Abandoned Well Logging Source Downhole
Attachments: Logbook Entry: 06/17/2014; FW: Radioactive Material Abandonment Notification for Weatherford Int._NRC RAM License 42-26891-01

Fyi.
Sent from Blackberry

From: Whitten, Jack
Sent: Wednesday, June 18, 2014 06:55 AM
To: Vasquez, Michael
Cc: Thompson, James; Gaines, Anthony
Subject: ACT: Event - Weatherford International, Inc. _Abandoned Well Logging Source Downhole

Michael//

I approved the abandonment of the two sealed sources on Tuesday, June 17, 2014. Written report from the licensee to follow in accordance with 10 CFR 39.77.

Thx//JackW

Munoz, Rick

From: HOO Hoc
Sent: Tuesday, June 17, 2014 4:50 PM
To: HOO Hoc
Subject: Logbook Entry: 06/17/2014

Ops Officer : HOWIE CROUCH
Entry Date : 06/17/2014 - 17:39
Entry Type : WELL LOGGING
Notify Date - Time : 06/17/2014 - 17:16
Event Date - Time : - ()
Site :
Emergency Class :

Mr. Johnathan Poe, Assistant U.S. RSO at Weatherford, Intl., Ft. Worth, TX, requested to abandon well logging sources. Conferenced the R4DO (Hay) and R4 DNMS (Whitten) into a conference (NRC-1) with Mr. Poe. The information about the well and sources provided on the conference is as follows:

POC: Johnathan Poe, ARSO-US, Weatherford, Intl. (817) 522-8333

Location: Gulf of Mexico, South Marsh Island, Blk 6. Lat: 28.979.179 Lon: 92.008.963

Description: OCS G33609 #1

Operator: Byron Energy, Inc.

Rig: Spartan 202

Well Depth: 7737'

Sources: Am-241/Be 15 Ci, Model AMNCY20, Cs-137, 2 Ci, Model CDC.CY16

Drilling Barriers in Place: ~227' heavy steel drill pipe

Operator intends to sidetrack from abandonment.

Permission: Granted at 1732 EST by Mr. Jack Whitten

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure email: hoo1@nrc.sgov.gov

Munoz, Rick

From: HOO Hoc
Sent: Tuesday, June 17, 2014 5:47 PM
To: Whitten, Jack
Subject: FW: Radioactive Material Abandonment Notification for Weatherford Int._NRC RAM License 42-26891-01
Attachments: Byron BHA1.pdf

Headquarters Operations Officer
U. S. Nuclear Regulatory Commission
Phone: 301-816-5100
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secure email: hoo1@nrc.sgov.gov



From: Poe, John [<mailto:Johnathan.Poe@weatherford.com>]
Sent: Tuesday, June 17, 2014 6:46 PM
To: HOO Hoc; jack.whiten@nrc.gov
Cc: Perry, Sean
Subject: Radioactive Material Abandonment Notification for Weatherford Int._NRC RAM License 42-26891-01

Mr. Whiten,

As per our conference call regarding the approval to abandon two Weatherford sources at South Marsh Island Block 6, I have listed the information below needed for approval. Please note that I have also attached a schematic of the tool which contains the two sources in question. If there is any information that I have neglected to add to this notification, please let me know.

Weatherford License: 42-26891-01

Well Operator: Byron Energy Inc.
Well Name: OCS G33609 #1 ST00BP00
API Number: 17-707-4091900
Well Location (Surface): Gulf of Mexico (South Marsh Island Block 6)
Lat & Long: Lat: 28.979179 Long: -92.008963
Rig: Spartan 202

Depth of Wellbore: 7,737 ft
Depth of top of the fish: 7,313 ft (+/- 5ft)

Description of Recovery Efforts

- Pipe stuck at 0500 June 11, 2014. We have not been able to jar free or circulate through the fish for 6 days.
- The drill string inadvertently backed out at 4184 ft while attempting to back off deeper. We screwed back in and backed off at 4291 ft. Seven joints of damaged drill pipe were laid down. We assume that we have a similar situation (more damaged connections) below the back off point to the top of the bottom hole assembly.

- Once screwed back in and the heavy weight drill pipe was perforated at 7536 ft (10ft above BHA), circulation was established at less than 1.5 barrels per minute (1000 psi max). During circulation with 11.0 pounds per gallon mud, a high gas of 2740 units was observed.
- Mud weight was increased from 11.0 pounds per gallon to 12.0 pounds per gallon but back ground gas continues to be present.
- An attempt to back off at 7551 ft (top of BHA) with a string shot was unsuccessful.
- The most recent attempt to back off at the top of the drill collars was unsuccessful and our inability to properly circulate and condition the drilling fluid puts wellbore stability at even more risk.
- A magnetic free point tool was run to determine where in the drill string we can sever the pipe. The pipe will be severed at 7313 ft MD +/- 5 ft.

Description of Sources Involved:

1. **Serial Number:** 31089B
Isotope: Am-241 Be
Description: Doubly-encapsulated sealed source meeting or exceeding the requirements of IAEA Special Form, NRC well logging source requirements specified in 10 CFR 39.41.
Activity: 15 Curies (555 Gigabecquerels)
Manufacturer and Model Number: QSA Global, Inc., Model AMN.CY20
Depth of Source: 7,623 ft.
2. **Serial Number:** 06955B
Isotope: Cs-137
Description: Doubly-encapsulated sealed source meeting or exceeding the requirements of IAEA Special Form, NRC well logging source requirements specified in 10 CFR 39.41.
Activity: 2 Curies (74 Gigabecquerels)
Manufacturer and Model Number: QSA Global, Inc., Model CDC.CY16
Depth of Source: 7,628 ft.

Description of Abandonment Proposal: June 17, 2014

The sources and LWD tool string will be cemented in place with a 500 ft cement plug from 7313 ft MD up to 6813 ft MD. The tool string will be severed at 7313 ft MD (+/- 5 ft) leaving 227 ft (+/- 5 ft) of heavyweight steel drill pipe, 46.96 ft of steel subs and drill collars, and 30.86 ft of monel above the source bearing tool to act as a deflection device. The operator intends to sidetrack the well from the top of the cement plug.

Regards,

Johnathan W. Poe

Assistant U.S. RSO

U.S. Radiation & Explosives Compliance Advisor

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Customer: **Byron Energy**
Well: **OCS-G 33609 #1 BP1**
Location: **SMI #6**
Rig: **Spartan 202**
Hole Section: **7-7/8"**

BHA Description: 4.75" HEL/BAP/IDS Tools for 7.875" hole
Objective: Build to 20°inc and 70°azi @ 2.5°DLS and hold
Revision: Rev 11

Depth In: 4,500
Depth Out: 9,558
Interval Length: 5,058

BHA Table

Item #	Description	Vendor	Bot Conn	Top Conn.	MAX OD (in)	Gauge OD (in)	Tube OD (in)	ID (in)	Length (ft)	Cum Length (ft)
1	7 7/8" Bit (TFA TBD)			4 1/2 Reg P			7.875		1.01	1.01
2	Mud Motor (1.15° Bend)		4 1/2 Reg B	4 1/2 XH B		7.750	6.250	2.500	26.68	27.69
3	Cross Over		4 1/2 XH P	3 1/2 IF B			6.250	2.375	2.47	30.16
4	7 3/4" Stabilizer (BFF GA)		3 1/2 IF P	3 1/2 IF B		7.750	4.750	2.250	5.74	35.90
5	MFR/GR		3 1/2 IF P	3 1/2 IF B	5.250		4.750	2.250	29.05	64.95
6	HEL/BAP		3 1/2 IF P	3 1/2 IF B	5.250		4.750	2.250	22.08	87.03
7	NDT/AZD		3 1/2 IF P	3 1/2 IF B		5.875	4.750	2.250	24.11	111.14
8	SST		3 1/2 IF P	3 1/2 IF B	5.375		4.750	2.250	30.86	142.00
9	7 3/4" Stabilizer		3 1/2 IF P	3 1/2 IF B		7.750	4.750	2.250	6.08	148.08
10	(1) 4 3/4" DC		3 1/2 IF P	3 1/2 IF B			4.750	2.250	31.32	179.40
11	Filter Sub		3 1/2 IF P	3 1/2 IF B			4.750		5.39	184.79
12	Cross Over		3 1/2 IF P	XT 39 B			5.000	2.750	4.17	188.96
13	(15) HWDP		XT 39 P	XT 39 B			4.000		454.15	643.11
14	Jars		XT 39 P	XT 39 B	4.875		4.750	2.250	32.48	675.59
15	(5) HWDP		XT 39 P	XT 39 B			4.000		151.61	827.20

Location of AM-241/Be Source

Location of CS-137 Source

Sensor Offsets			BHA Weights	
*All sensor offsets are approximate			in air:	28,874 Lbs
Item #	Sensor	Sensor-Bit	in mud:	24,021 Lbs
5	Gamma Ray:	40.53	below jars in mud at vertical:	19,138 Lbs
5	Resistivity:	50.10		
6	Directional:	70.46	below jars in mud at 20°:	17,984 Lbs
6	Annular Pressure:	75.60		
7	Density:	98.82	Drilling Fluid	
7	Neutron:	106.80	Mud Type:	Water Based
8	Sonic:	129.61	Mud Weight:	11

NOTES:

- 1 Drilling jar, HWDP, and collar placement would be determined as a response to directional requirements
- 2 Sensor offsets are approximate distances
- 3 The drilling assemblies listed are intended as guidelines to be employed, modified, or rejected as directional control and wellbore conditions dictate