

June 14, 2014



Nuclear Regulatory Commission Region IV  
1600 E. Lamar Blvd.  
Arlington, Texas 76011-4511  
Attn.: Anthony Gaines

Re: NRC License No. 17-27437-01 Source Abandonment Report

(1) Date Occurrence: Tool stuck in hole on May 16, 2014 @ 13:05 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be -	Serial Number: SN77865B	QSA GLOBAL, AMN.CY3
2.5 Ci (92.5 GBq) Cesium-137 -	Serial Number: SN80200B	QSA GLOBAL, CDC.CY4

(3) Surface Location & Well Identification:

Operator -	Fieldwood Energy LLC.
Rig -	Hercules 214
Well -	OCS-G 10736 002 ST00BP00
Field -	Eugene Island Block 187
Rig Surface Location -	N 28° 43' 51.72" and W 91° 28' 19.872"
General Area -	Offshore, Louisiana

(4) Results of Efforts Immobilize: Pumped concrete to immobilize and seal hole.

(5) Recovery Efforts: Please reference the attached document.

(6) Depth of Source(s):

Americium-241/Be -	14,757 feet Measured Depth (13,539 ft. TVD)
Cesium-137 -	14,765 feet Measured Depth (13,545 ft. TVD)

(7) Top of Cement Plug: Approximately 13,314 feet MD (12,663 ft. TVD)

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#### First Plug Cementing Procedure

Break circulation, close valve, and test line to 5,000 psi. Batch the cement to verify density. Pump 7 barrels weighted spacer at 13.0 ppg. Mix and pump 717 sacks of class H cement @ 17.2 ppg. Drop dart. Pump 2<sup>nd</sup> 7 barrel spacer at 13 ppg mud. Pull out of hole to 12,300 ft MD (12,042 ft TVD). Pump 228 barrels of mud to ensure drill-pipe is void of cement. Then shut down the pumps. The top of the cement is at approximately 13,314 feet MD (12,663 ft TVD).

Client elected to sidetrack the well utilizing the top of the fish as the deflection device.

(8) Depth of Well: 15,187 ft. MD (13,800 ft. TVD)

(9) Other Information: N/A

(10) Agencies Notified: Nuclear Regulatory Commission

Thank you for your attention to this matter,

A handwritten signature in cursive script, appearing to read "John A. Yunker".

John A. Yunker  
Radiation Safety Officer  
[E-mail: john.yunker@bakerhughes.com](mailto:john.yunker@bakerhughes.com)

## **Fieldwood Energy, Inc.**

*OCS-G 10736 002 ST00BP00*

*OCS-G 10736 002 ST00BP01*

*Eugene Island 187*

*Offshore, Louisiana*

Submitted By:

Cody Flemming

Aaron Arceneaux

Max Hamdamov

Son Dinh

Chris Hiatt

Date : XX May 2014

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## **Disclaimer**

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## **Chronological Drilling Summary**

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**15 May 2014**

0000 Mid night depth is 14470 feet. Circulating Hours is 134.2 hours. On Bottom Hours is 90.9 hours.

0015 Max gas 800 units at 14475 feet.

0020 Max gas 2200 units at 14476 feet.

0025 Max gas 4000 units at 14479 feet.

0030 Max gas 4050 units at 14480 feet.

0043 Off bottom at 14485 feet.

0048 Back on bottom drilling.

0056 Max gas 2700 units at 14490 feet.

0111 Max gas 3500 units at 14498 feet.

0117 Max gas 1300 units at 14503 feet.

0136 Max gas 400 units at 14514 feet.

0153 Max gas 4100 units at 14517 feet.

0216 Pump sweep at 14517 feet.

0227 MWIN = 10.6ppg at 14520 feet.

0339 Off bottom at 14584 feet.

0344 Back on bottom.

0427 Slow pump rates at 14610 feet.

0433 Pump sweep at 14610 feet.

0517 Max gas 700 units at 14647 feet.

0606 Max gas 3400 units at 14690 feet.

0638 Pump sweep at 14705 feet.

0650 Max gas 3800 units at 14708 feet.

0925 Pump sweep at 14800 feet.

1224 Max gas 720 units at 14944 feet.

1340 Pump sweep at 14991 feet.

1355 Max gas 4700 units at 15003 feet.

1445 Raise MWIN to 10.8 ppg at 15030 feet.

1459 ORD failed at 14973 feet sensor depth, 15039 bit depth

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- 1511 Max gas 2075 units at 15046 feet.
  - 1518 Off bottom. Cycle pumps for MWD attempting to reset ORD at 15051 feet Bit depth.
  - 1526 Unsuccessful. Continue drilling as per Co, man due to hole conditions.
  - 1530 Resume drilling.
  - 1535 No replacement tools needed as per Co. man due to close proximity to well TD.
  - 1555 Max gas 4400 units at 15069 feet.
  - 1630 Max gas 2600 units at 15086 feet.
  - 1631 Circulate gas out.
  - 1756 Slow pump rates at 15086 feet.
  - 1815 ORD sensor transmitting good values intermittently at 15090 feet.
  - 2025 Cycle pumps at 15178 feet.
  - 2033 Back on bottom drilling.
  - 2050 Slow pump rates at 15180 feet.
  - 2055 Picked up a single joint.
  - 2105 Well TD at 15187 feet MD / 13800 feet TVD.
  - 2110 Pump sweep.
  - 2115 MWIN = 11.0ppg.
  - 2117 Downlink ribs off. Confirmed.

**16 May 2014**

- 0000 Mid night depth is 15187 feet. Circulating Hours is 157.2 hours. On Bottom Hours is 106.8 hours.
- 0015  $R_M = 0.95$ ,  $R_{MF} = 0.70$  at 15187 feet.
- 0025 Max gas 350 units.
- 0051 Max gas 380 units.
- 0101 Max gas 500 units.
- 0125 Max gas 600 units.
- 0135 Max gas 600units.
- 0147 Max gas 700 units.

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0224 Max gas 550 units.  
0235 MWIN = 11.1ppg.  
0255 Max gas 760 units.  
0310 Max gas 900 units.  
0405 Max gas 1200 units.  
0520 Max gas 1000 units.  
0700 Max gas 700 units.  
0800 Max gas 700 units.  
0845 MWIN = 11.3 ppg.  
1027 Max gas 450 units.  
1215 Max gas 250 units.  
1230 Flow check (-).  
1240 Begin short trip.  
1305 Stuck at 14,830 ft MD (13583 ft TVD).  
1600 Stage up pumps.  
1605 Tool in sync.  
1731 Pumps off.  
1749 Pumps on. Tool in sync.  
2130 Pump rapid spot downhole to help free tool.  
2148 Pumps off.  
2155 Pumps on.  
2216 Pumps off.

**17 May 2014**

0000 Rig still jarring trying to get tool freed.  
0800 Pumps on.  
0948 Max gas 235 units.  
1202 Pumps off.  
1207 Pumps on.  
1211 Pumps off.  
1212 Pumps on.



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- 1237 Pumps off.
  - 1800 Wireline free point tools lost downhole at approximately 12000 feet.
  - 2300 Retrieved free point tools. Tools reached ~12,200 feet where they hit an obstruction in the drill pipe. They are running back in the drill pipe to try and break the obstruction loose.

**18 May 2014**

- 0000 Running in hole to try and break the obstruction free.
- 0245 Jarring every 15 minutes.
- 0600 Continue wireline operations.
- 1200 Attempt at severing pipe with explosive charges failed.  
Consequently the jars aren't working. Another attempt will be made to set charges later on.
- 1621 Tool pulsing.
- 1725 Pumps off.
- 1800 Max gas 3100 units.
- 1805 Max gas 4300 units.
- 1810 Max gas 5000 units.
- 1820 Max gas 5000 units.
- 1840 Max gas 4200 units.
- 1915 Max Gas 750 units.
- 1949 Cycle pumps.
- 2130 Attempting free point operations.

**19 May 2014**

- 0000 Continue free point operations.
- 0200 Pumps on.
- 0245 Max gas 350 units.
- 0250 Max gas 410 units.
- 0310 Radio silence.
- 0315 Free point established at 5 jts above the jars.
- 0330 Pull out of hole with wireline.

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0543 Circulate bottoms up.  
0705 Max gas 3160 units.  
0935 Flow check (-),  
0945 Begin pulling out of hole with drill pipe,  
1300 Continue pulling out hole.  
1600 Out of hole with drill pipe. Function test BOP's then begin picking up fishing tool BHA.  
1830 Trip in hole with fishing tools on drill pipe.  
2115 Slip and cut drill line.  
2350 Resume tripping in hole.

**20 May 2014**

0000 Continue tripping in hole.  
0440 Circulate above fish.  
0530 Attempt to screw onto fish.  
0540 Begin jarring on fish.  
0621 Pumps on.  
0630 Tools in sync.  
0711 Max gas 1030 units.  
0725 Max gas 1600 units.  
0755 Max gas 2600 units.  
0800 Max gas 3400 units.  
0805 Max gas 4400 units.  
0825 Max gas 5000 units.  
0905 Max gas 1200 units.  
1100 Max gas 515 units.  
1520 Pumps off.  
1530 Rig up for wireline operations.

**21 May 2014**

0000 Continue wireline operations.

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0630 Severed pipe.  
0730 Circulate bottoms up.  
0920 Begin tripping out of hole.  
2345 Trip in hole with cementing equipment.

**22 May 2014**

0000 Continue cementing operations.  
0830 Continue tripping in hole.  
0900 Continue waiting for permit to cement.  
1100 Cementing operations.  
1600 Pull out few stands and displace. **End AP Run 4. End LWD Run 4.**  
1815 Pump slug.  
2000 Pull out of the hole.

**23 May 2014**

0000 Continue tripping out of the hole.  
0230 Pick up BHA.  
0350 Plug into tools. Perform pre-run verification.  
0410 Unplug.  
0550 Scribe line MWD to motor 118°.  
0600 Tools below rotary. **Begin LWD Run 5.**  
0818 Surface test – successful.  
1200 **Begin AP Run 5.**  
1325 Fill pipe at 9500 feet. Tools in sync.  
1437 Tagged at 12403 feet.  
1445 Pumps on.  
1447 Tools in sync. Orient motor to high side.  
1509 Pumps off. Continue tripping in the hole.  
1533 Pumps on at 12650 feet. Begin washing down to top of cement.  
1630 Jars.  
1810 Max gas 500 units.

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- 1939 Pumps off.
  - 1943 Pumps on.
  - 2036 Checkshot: MD- 13115 ft, Inc- 52.98, Azi- 43.35.
  - 2101 Cycle pumps.
  - 2105 Pumps on.
  - 2131 Pumps off.
  - 2136 Checkshot: MD- 13179 ft, Inc- 53.33, Azi- 44.07.
  - 2234 Checkshot: MD- 13242 ft, Inc- 52.13, Azi- 42.44.
  - 2240 Begin drilling cement at 13310 feet. Time sliding at 1" every 5 minutes.
  - 2348 Off bottom at 13311 feet.
  - 2357 Slow pump rates at 13311 feet.

**24 May 2014**

- 0000 Mid night depth is 13311 feet. Circulating Hours is 8.4 hours. On Bottom Hours is 0.5 hours.
- 0015 Cycle pumps.
- 0059 Back on bottom sliding.
- 0115  $R_M= 1.00$ ,  $R_{MF}= 0.64$  at 13311 feet.
- 0121 Pump sweep at 13311 feet.
- 0211 Off bottom at 13312 feet.
- 0305 Back on bottom sliding.
- 0455 Off bottom at 13314 feet. Official kick-off point.
- 0524 Back on bottom sliding.
- 0530 Off bottom at 13315 feet.
- 0542 Resume sliding. Stabilizers hanging up, worked pipe. Re-started bit on numerous occasions for ROP. Continue kicking off.
- 1017 Rotary drill from 13337 feet.
- 1107 Off bottom at 13373 feet for a checkshot.
- 1112 Resume rotary drilling.
- 1214 Sliding from 13392 feet.

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- 1353 Rotary drill from 13410 feet.
  - 1406 Pump sweep at 13418 feet.
  - 2215 Slow pump rates at 13580 feet.

**25 May 2014**

- 0000 Midnight depth is 13602 feet. Circulating Hours is 32.0 hours. On Bottom Hours is 14.7 hours.
- 0011 Checkshot at 13539 feet.
- 0112  $R_M= 1.05$ ,  $R_{MF}= 0.56$  at 13619 feet.
- 0547 Pump sweep at 13685 feet.
- 0623 Checkshot at 13645 feet.
- 0915 Gas 350 units at 13736 feet.
- 0929 Rotary drilling from 13741 feet.
- 0941 Sliding from 13750 feet.
- 1100 Rotary drilling from 13760 feet.
- 1134 Slow pump rates at 13767 feet.
- 1147 Pump sweep at 13767 feet.
- 1243 Off bottom at 13810 feet for a checkshot survey.
- 1302 Slide from 13810 feet.
- 1553 Rotary drilling from 13843 feet.
- 1716 Pump sweep at 13870 feet.
- 1816 Checkshot at 13846 feet.
- 1835 Max gas 1000 units at 13920 feet.
- 2135 Slow pump rates at 13956 feet.
- 2155 Pump sweep at 13962 feet.

**26 May 2014**

- 0000 Midnight depth is 14008 feet. Circulating Hours is 55.6 hours. On Bottom Hours is 32.1 hours.
- 0145 Pump sweep at 14050 feet.
- 0251 Checkshot at 14033 feet.

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- 0724 Pump sweep at 14144 feet.
  - 0904 Rotary drilling from 14177 feet.
  - 0953 Slide from 14208 feet.
  - 1048 Off bottom at 14221 feet for slow pump rates.
  - 1111 Rotary drilling from 14221 feet.
  - 1413 Slide from 14270 feet.
  - 1500 Rotate from 14283 feet.
  - 1506 Pump sweep at 14288 feet.
  - 1524 Slide from 14302 feet.
  - 1612 Rotate from 14309 feet.
  - 2110 Pumps off at 14429 feet for blown swab. Racked back a stand.
  - 2116 Pumps on.
  - 2130 Max gas 1100 units at 14430 feet.
  - 2225 Max gas 1600 units at 14430 feet.
  - 2237 Max gas 2800 units at 14430 feet.
  - 2300 Rig repairs and circulating gas out.
  - 2344 Picked up stand and back on bottom drilling.

**27 May 2014**

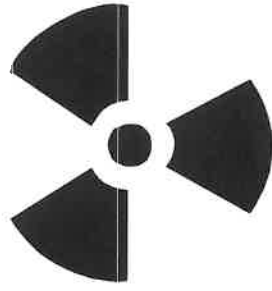
- 0000 Midnight depth is 14448 feet. Circulating Hours is 78.7 hours. On Bottom Hours is 48.3 hours.
- 0030 Cycle pumps and still repairing pumps.
- 0120 Cycle pumps.
- 0125 Back on bottom drilling.
- 0215  $R_M = 1.10$ ,  $R_{MF} = 0.70$  at 14524 feet.
- 0220 Pump sweep at 14524 feet.
- 0355 Pump sweep at 14616 feet.
- 0425 Max gas 1600 units at 14639 feet.
- 0437 Max gas 2550 units at 14655 feet.
- 0500 Gas 2500 units at 14684 feet.
- 0553 Pump sweep at 14712 feet.

0712 Well TD at 14805 feet MD / 13620 feet TVD.  
0730 Pump sweep and circulate bottoms up.  
1015 Slow pump rates.  
1020 Backream out of hole.  
1323 Jars go off at 13151 feet.  
1505 Jars go off at, work through a tight spot at 12376 feet.  
1535 Continue backreaming out of hole.  
1835 Pull out of hole 10 stands.  
1930 Pump slug. Pull out of hole.  
2200 Bit inside casing. **End AP Run 5.**  
2330 Begin testing BOPs with BHA hung off inside casing.

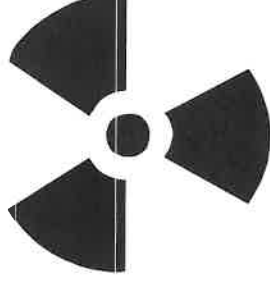
**28 May 2014**

0000 Testing BOPs.  
0500 Rig down lines.  
0530 Continue pulling out of hole with BHA.  
0830 Tools above rotary. **End LWD Run 5.**

Fieldwood Energy LLC  
OCS-G 10736 002 ST00BP00  
Eugene Island Block 187  
N 28 deg 43' 51.72" & W 91 deg 28' 19.827"



**CAUTION**



**ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED**  
**May 22, 2014 AT 14,766 FT MD. (13,545 FT TVD ) AND ONE 5**  
**CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED May 22,**  
**2014 AT 14,757 FT. MD (13,539 FT. TVD ). TOP OF FISH AT**  
**14,164 FT MD (13,179 FT TVD).**

**DO NOT ENTER WELL BEFORE CONTACTING**

Nuclear Regulatory Commission





## GLOBAL RADIATION SAFETY RSF-1667

### Radiation Incident Report / LOST IN HOLE Report

(Email to the Radiation Safety Officer (Houston) within 24 hours)

Report Time / Date:	09:40	/	05/21/2014
Baker Hughes Job Number (If Applicable):	6199766		
Date and Time of Incident:	13:05	/	05/16/2014
Location of Incident:	OCS-G 10736 002 ST00BP00		
Name of Persons Involved in Incident:			
Name of Responsible Engineer:	Max Hamdamov		
Equipment Involved in Incident:	SN-80200B / SN-77865B		
Incident Summary (Facts Only):	Source stuck in hole		
(For Example - Employee Radiation Exposure, Source Stuck In Hole, etc.)			
Description of Incident (Facts Only) -> -> -> -> -> (Use additional pages if required)	<p>BHA stuck while backreaming out of hole at well TD. Jarring began immediately after becoming stuck downhole. Freepoint, backing off and fishing was attempted without success.</p> <p>Top of the Fish: 14,164 feet MD (13,179 feet TVD)</p> <p>Latitude: 28 deg 43' 51.72" N</p> <p>Longitude: 91deg 28' 19.827" W</p>		
(For Sources "Stuck in Hole" complete the "Stuck In Hole Notification Form)			
Actions Taken in Response to the Incident:	Notify RSO and Operations Coordinator		
Employee (Print Name/ Signature/Date):			
Radiation Protection Supervisor: (Print Name/Signature/Date)	Max Hamdamov 05/21/2014		
Location Manager (Print Name/Signature/Date):			

**\*\*Contact your Supervisor or a member of the Global Radiation Team for guidance in completing this form\*\***



**Radiation Incident Report  
Source Stuck In Hole Notification  
RSF-1667**

(scan to PDF and email to the Radiation Safety Officer (Houston) within 24 hours)

Report Time/Date:	05/21/2014	/	09:40
Job Number (If Applicable):	6199766		
Gamma Source Serial Number (and activity) or N/A:	SN-80200B QSA Global Inc CDC.CY4		
Neutron Source serial number (and activity) or N/A:	SN-77865B QSA Global Inc AMN.CY3		
Person Reporting & Contact #:	Max Hamdamov (281) 784-8355		
Location / Base Reporting:	OCS-G 10736 002 ST00BP00 Eugene Island Block 187		
Rig / Platform (If Applicable):	Hercules 214		
Well Name & Number (If Applicable):	OCS-G 10736 002 ST00BP00		
Operator / Customer (If Applicable):	Fieldwood Energy LLC		
Operator / Customer Contact Information (If Applicable):	Gary Holslen		
Name of Regulatory Authority that has jurisdiction:	Nuclear Regulatory Commission		
License Reference Number (If Applicable):	17-27437-01		
Radiation Protection Supervisor (RPS):	Max Hamdamov		
Water Depth (If Applicable):	111		
Total Hole Depth (MD & TVD) (If Applicable):	15187 ft MD/ 13800 ft TVD		
Bit depth (MD & TVD)(If Applicable):	14830 ft MD / 13583 ft TVD		
Gamma Source Location / Depth (If Applicable):	2078.96 ft N, 2036.72 ft E / 14765.57 ft MD (13545 ft TVD)		
Neutron Source Location / Depth (If Applicable):	2074.14 ft N, 2031.94 ft E / 14757.02 ft MD (13539 ft TVD)		
Surface Casing information/ Depth & Diameter (If Applicable):	13.375" From surface to 4990.00 ft MD / 4989.77 ft TVD		
Casing information / Depth & Diameter (If Applicable):	N/A		
Regulatory Authority Contact (Name & Date):	Anthony Gaines / May 21, 2014		
Abandonment Authorized by (Name & Date):	Anthony Gaines / May 21, 2014		

**\*\*Contact your Supervisor or a member of the Global Radiation Team for guidance in completing this form\*\***