

April 20, 2011



Nuclear Regulatory Commission Region IV  
611 Ryan Plaza Dr., Suite 400  
Arlington, Texas 76011-8064  
Attn.: James Thompson

*030-32819*

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

(1) Date Occurrence: Tool stuck in hole on March 30, 2011 @ 05:00 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be - Serial Number: SS44829B QSA GLOBAL AMN.CY3  
2.5 Ci (92.5 GBq) Cesium-137 - Serial Number: PP34652B QSA GLOBAL CDC.CY4

(3) Surface Location & Well Identification:

Operator - Arena Offshore LLC  
Rig - Seahawk 2602  
Well - OCS-G 1248 #C011 ST04 BP00  
Field - South Timbalier Block 161  
Rig Surface Location - N 28° 34' 49.34" and W 90° 23' 33.825"  
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 - 8,548 feet Measured Depth (8,322 ft. TVD)  
Cesium-137 - 8,556 feet Measured Depth (8,329 ft. TVD)

(7) Top of Cement Plug: Approximately 7,995 feet Measured Depth (7,796 ft. TVD)

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Proposed KOP Cementing Procedure was as follows:

**Cement Plug from 7,995 ft – 8,495 ft (MD)  
7,796 ft – 8,271 ft (TVD)**

Mix and pump 293 ft<sup>3</sup> (52 bbls, 274 sks, 1.07 ft<sup>3</sup>/sk) Class H "Premium" cement for 500' bypass cement plug.

Client utilized the steel bottom hole assembly as the permanent deflection device to sidetrack the well.

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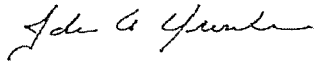
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Template \_\_\_\_\_  
Date \_\_\_\_/\_\_\_\_/\_\_\_\_ QC'd by \_\_\_\_\_

(8) Depth of Well: 12,379 feet Measured Depth (11,930 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)

# **Arena Offshore, LLC.**

OCS-G 01248 C011 ST04BP00

*South Timbalier Block 161*

*Offshore, Louisiana*

Submitted By:

Ha Bui

Stephen Spurgeon

Tony Micelle

Field Service Engineers

Date: 08 April 2011

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## **Disclaimer**

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## Chronological Drilling Summary

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**29 March 2011**

0000 Depth at 11879 feet, RunCirc= 60.7, OnBottom= 48.9.  
0023 Experiencing problems Downlinking at 11883 feet due to low pump pressure.  
0030 Downlink, Target Inclination = 25.38°, Walk Force = -38.71%.  
0208 Survey.  
0212 Back on bottom.  
0216 Downlink, Target Inclination = 27.72°, Build Force = 45.161%.  
0228 Pump sweep.  
0238 Off bottom due to pump problems at 11980 feet.  
0248 Back on bottom.  
0328 Off bottom to have both pumps back online.  
0335 Back on bottom.  
0420 Survey.  
0424 Back on bottom.  
0431 Pump sweep.  
0436 Downlink Target Incl. = 30.24°, Walk Force = -25.806%.  
0548 Gas = 125 units.  
0637 Survey.  
0641 Back on bottom.  
0643 Downlink Target Incl. = 31.86°.   
0653 Pump sweep.  
0821 Slow pump rates.  
0832 Survey.  
0836 Back on bottom.  
0849 Pump sweep.  
0931 Off bottom at 12296 due to high torque.  
0942 Back on bottom.  
1020 Off bottom at 12309 due to high torque.  
1100 Back on bottom.  
1140 Off bottom at 12316 due to high torque.

1159 Shut down pump #1.  
1202 Circulate with one pump.  
1235 Back on bottom.  
1335 Off bottom at 12320 due to high torque.  
1520 Back on bottom.  
1540 Pump sweep.  
1633 Survey.  
1637 Back on bottom.  
1646 Downlink Target Incl. = 36.72°, Walk Force = -9.677%.  
1717 Off bottom at 12367.90 due to high torque.  
1810 Back on bottom.  
1819 Pump sweep.  
1824 Off bottom back reaming.  
1825 Back on bottom.  
1828 Off bottom back reaming.  
1921 Back on bottom.  
1922 Downlink, Ribs off.  
2020 Survey.  
2025 Pulling out of hole at 12379.72 feet.

### **30 March 2011**

0000 Depth at 12379 feet, RunCirc= 82.2, OnBottom= 61.1.  
0114 No circulation through the tools.  
0124 Circulation through tools.  
0700 Stuck pipe at 8731 feet.  
1700 Baker Atlas rigging up wireline equipment.

### **31 March 2011**

0000 Depth at 12379 feet, RunCirc= 87.9, OnBottom= 61.1.  
0300 Wireline gets stuck.  
0400 Shear wireline.

- 0420 Pull remaining wireline out of hole.
- 0730 Run backup wireline in hole.
- 1430 Backed off drill pipe.
- 1501 Pump sweep.
- 1505 Circulate.
- 1700 Pulling drill pipe out of hole.

**01 April 2011**

- 0100 Testing Blow Out Preventers.
- 0620 Begin fishing operations.
- 1130 Unable to reach fishing depth. Pull out of hole to pick up clean out assembly.
- 1700 Trip in hole with clean out assembly.

**02 April 2011**

- 0000 Continue clean out run.
- 0100 Top drive down. Pull up to the casing shoe to fix top drive.
- 0500 Top drive repairs.
- 1145 Begin tripping in hole to continue clean out run.
- 1700 Circulate hole clean. Reached fishing depth of 8529 feet.
- 1730 Pump sweep.
- 2150 Pump sweep.

**03 April 2011**

- 0000 Cut and slip drill line.
- 0030 Continue pulling out of hole.
- 0440 Trip in hole with fishing assembly.
- 0745 Screw into fish. Begin jarring.
- 1435 Company man and fishing tool hand were informed that they cannot wash within 15 feet of radioactive sources. (76.87 feet from bottom of bit or 4 feet down on the box end of the NM stabilizer at 80.87 feet)



**04 April 2011**

- 0000 Pull out of hole.
- 0800 Waiting on orders.
- 1215 Trip in hole with wire line to retrieve five drill collars that were left after unscrewing from jarring assembly.

**05 April 2011**

- 0000 Rigging up new swivel.
- 0500 Pull out of hole after retrieving five collars.
- 0835 Jarring assembly out of hole.
- 0840 Waiting to pick up washing assembly.
- 1300 Begin picking up washing assembly.
- 1940 Reset depth to 7371 feet.

**06 April 2011**

- 0003 Change bit depth to 8450 feet.
- 0012 Start washing down.
- 0330 Hole is packing off. Circulate.
- 0623 Mud weight in is 11.1 ppg. Washed down to a depth of 8514 feet.
- 0920 Decision to pull out of the hole and to cement and abandon tools.
- 0944 Pump slug.
- 1520 Lay down washing assembly.
- 1525 Rig repairs.
- 1930 Pick up tubing for cementing operations.
- 2130 Informed by company man to begin rigging down.

**07 April 2011**

- 0000 Continue to rig down.
- 0348 Begin cementing operations.
- 0515 Finish cementing operations.
- 0530 FSEs finish rig down.

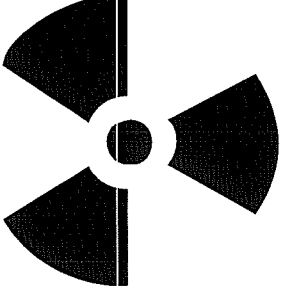
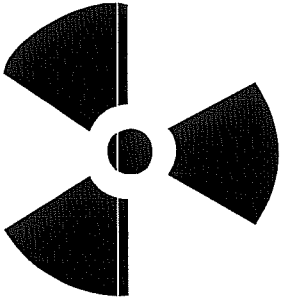
1600 FSEs depart location.

Arena Offshore LLC.

OCS-G 1248 #C011 ST04 BP00

South Timbalier Block 161

N 28 deg 34' 49.34" & W 90 deg 23' 33.825"



**CAUTION**

**ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED**  
**April 07, 2011 AT 8,553 FT MD. (8,326 FT TVD ) AND ONE 5**  
**CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED April 07,**  
**2011 AT 8,545 FT MD (8,318 FT. TVD ). TOP OF FISH AT**  
**8,495 FT MD (8,271 FT TVD).**

**DO NOT ENTER WELL BEFORE CONTACTING**

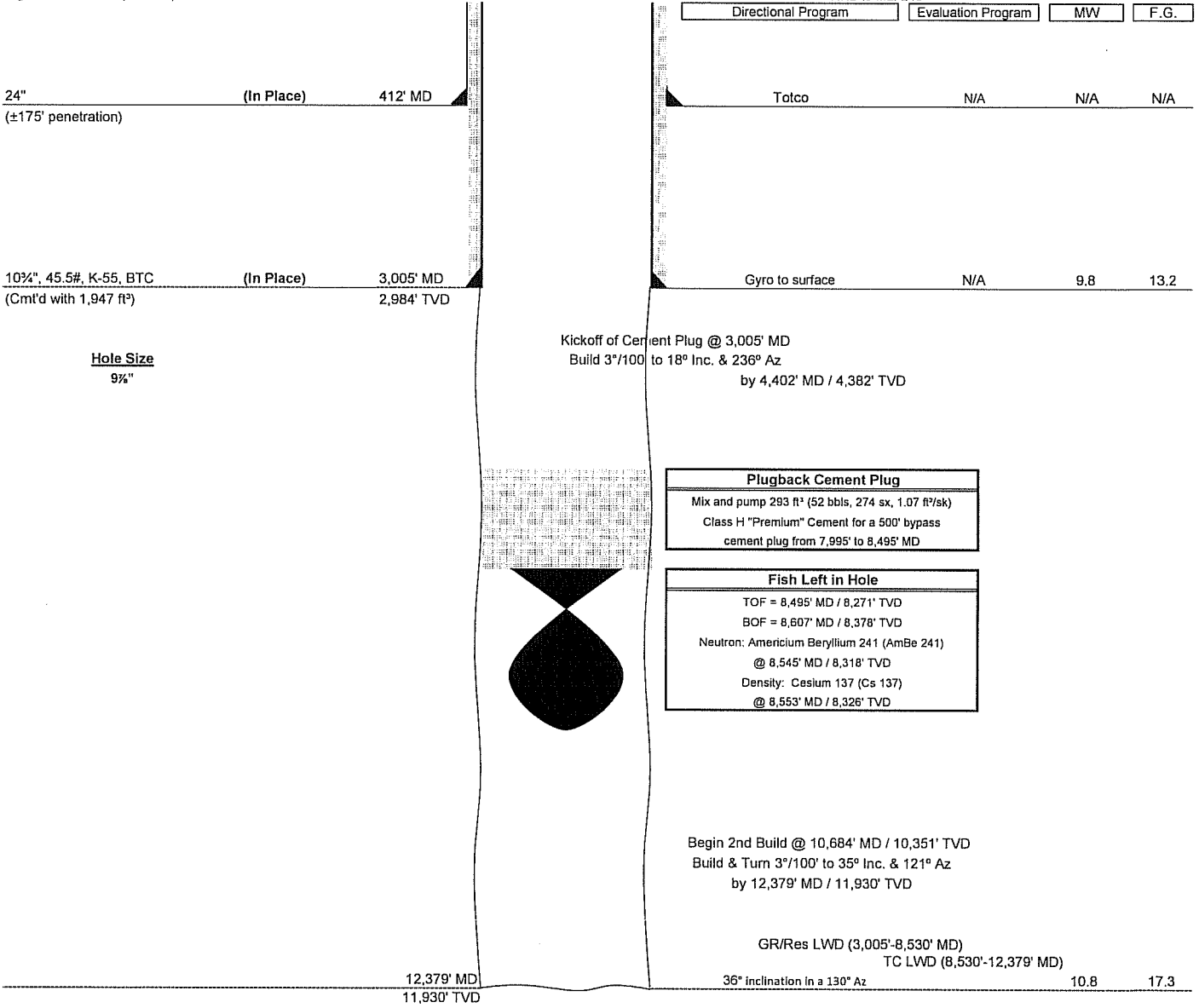
NUCLEAR REGULATORY COMMISSION

**ARENA OFFSHORE**  
 South Timbalier Block 161  
 OCS-G- 1248 Well #C011 ST04 BP00

Current Schematic  
 04/06/2011  
 Revision 0.0

SL: 2,135' FNL and 3,124' FEL of ST 161  
 Lat: N 28° 34' 49.34" and Long: W 90° 23' 33.825"  
 X=2,301,971 Y=-30,144  
 Rig: Seahawk 2602 (250 MC)

Water Depth: 116'  
 RKB to WL: 133'  
 RKB to THF: 73'  
 RKB to ML: 249'





INTEQ

# Sources Stuck in Hole



Baker Atlas

Job Number	3637968
Gamma Source serial number (and activity)	Cesium-137. 92.5 GBq. SN: PP34652B
Neutron Source serial number (and activity)	Am-241/Be. 185 GBq. SN: SS44829B
Stuck time / date	0700 / 30 March 2011
Abandoned time / date	0500 / 07 April 11
Location	South Timbalier Block 161 Latitude: N 28 deg 34' 49.34" Long: W 90 deg 23' 33.825"
Rig / platform	Seahawk 2602 / C Platform
Well	OCS-G 1248 C011 ST04BP00
Operator	Arena Offshore, LLC
OIM / Platform Manager	James Knuckles
Regulatory Authority	BOEHM
License reference if available	NRC License 17-27437-01
Radiation Protection Supervisor	Tony Micelle / Bill Ashmore
Water depth	116'
Hole depth (MD & TVD)	12379 ft. MD (11930 ft. TVD)
Bit depth (MD & TVD)	8610 ft MD (8381 ft. TVD)
Gamma Source Location	8556 ft. MD (8329 ft. TVD)
Neutron Source Location	8548 ft. MD (8322 ft. TVD)

Notes:-

Reported by : -

Date:-

Send to the Base RPS

Copy to be placed in well file