

July 15, 2009



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

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

(1) Date Occurrence: Tool stuck in hole on June 17, 2009, 20:10 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be - Serial Number: PB35960B QSA GLOBAL AMN.CY3  
2.5 Ci (92.5 GBq) Cesium-137 - Serial Number: PP27822B QSA GLOBAL CDC.CY4

(3) Surface Location & Well Identification:

Operator - Apache Corporation  
Rig - H&P 100 (Helmrich & Payne Corporation)  
Well - OCS-G 16454 A025 ST00BP00  
Field - South Timbalier Block 290  
Rig Surface Location - N 28° 09' 48.313" and W 90° 21' 31.622"  
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 - 15,504 feet Measured Depth (10,728 ft. TVD)  
Cesium-137 - 10,514 feet Measured Depth (10,734 ft. TVD)

(7) Top of Cement Plug: Approximately 15,055 feet Measured Depth (10,459 ft. TVD)

Operator pumped a 30 bbl Ultra Flush high viscosity spacer at 16 ppg followed by a 17.2 ppg cement slurry of Class H cement followed by another high viscosity spacer at 16 ppg to balance at 13,677 feet MD (9,630 feet TVD) due to the hole collapsing before the cement could be pumped. Then the operator sidetracked the well utilizing the top of the fish as the deflection device.

(8) Depth of Well: 15,595 feet Measured Depth (10,783 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 G. [unclear]".

John A. Yunker  
Radiation Safety Officer

# **Apache Corporation**

*OCS-G 16454 A025 ST00BP00*

*OCS-G 16454 A025 ST00BP01*

*South Timbalier Block 290*

*Offshore, Louisiana*

Submitted By:

Chase Sackett

Bill Ashmore

Asha Poojari

Chris Vondenstein

Field Service Engineers

Date: 08 July 2009

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## **Disclaimer**

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## **Chronological Drilling Summary**

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**17 June 2009**

0000 Depth: 15428 feet. RC: 0.1 hours OBT: 0.0 hours.  
0535 Circulate inside casing and service the top drive. **Start AP Run 8.**  
0630 Continue tripping in the hole.  
0705 Condition mud at 14200 feet.  
0720 Continue tripping in the hole.  
0745 Wash and ream last three stands to bottom.  
0835 Pump sweep while reaming back to bottom.  
0915 Resume drilling at 15428 feet.  
1000 Downlink to Hold Mode.  
1204 Pump sweep at 25498 feet.  
1338 Off bottom for pump problems with pump number 1 (blown swab) at 15543 feet.  
1350 Resume drilling with pumps 2 and 3 online.  
1430 Off bottom at 15573 feet to recycle pumps several times due to noise on pump #3.  
1455 Resume drilling with pumps 1 and 2 online.  
1524 Pump sweep at 15595 feet.  
1600 Circulate off bottom while weighting up mud.  
1700 Increase the mud weight from 15.1 to 15.2 ppg. Continue to circulate off bottom.  
1831 Downlink to Ribs Off.  
1849 Decrease the mud weight from 15.2 ppg to 15.0 ppg. Continue to circulate off bottom.  
1940 Pump sweep at 15595 feet.  
2010 Pipe stuck at 15565 feet.  
2016 Begin jarring on the drill pipe.  
2055 Decrease the mud weight from 15.0 ppg to 14.9 ppg. Continue to circulate off bottom. **End AP Run 8.**

**18 June 2009**

0000 Depth: 15595 feet. RC: 16.6 hours OBT: 5.1 hours.  
0115 Rapid Spot pill is spotted around the BHA.

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0217 Spot pill, continue to work pipe.  
0314 Spot pill, continue to work pipe.  
0420 Spot pill, continue to work pipe.  
0515 Spot pill, continue to work pipe.  
0614 Spot pill, continue to work pipe.  
0715 Spot pill, continue to work pipe.  
0815 Spot pill, continue to work pipe.  
1120 Spot pill, continue to work pipe.  
1255 Spot pill, continue to work pipe.  
1310 Spot pill, continue to work pipe.  
1420 Spot pill, continue to work pipe.  
1630 Spot pill, continue to work pipe.  
1720 Spot pill, continue to work pipe.  
1815 Spot pill, continue to work pipe.  
1917 Spot pill, continue to work pipe.  
2015 Spot pill, continue to work pipe.  
2115 Spot pill, continue to work pipe.  
2215 Spot pill, continue to work pipe.  
2313 Spot pill, continue to work pipe.

**19 June 2009**

0000 Depth: 15595 feet. RC: 18.0 hours OBT: 5.1 hours.  
0045 Rig up wireline freepoint.  
0400 Begin wireline operations.  
0650 Circulating off bottom.  
0945 End wireline operations.  
1000 Spot a Rapid Spot pill in open hole and cut mud weight from 14.9 to 14.6 ppg.  
1140 Circulate while decreasing the mud weight to a 14.6 ppg.  
1143 Tool is pulsing normally with 310 gpm (with 2850 psi).  
1203 Pumps off, continue rig maintenance (repairing the brakes on the top drive).

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- 1225 Pump sweep and continue with rig repairs.
  - 1234 Tool is pulsing normally with 330 gpm (2600 psi).
  - 1252 Reduce strokes below tool power on threshold.
  - 1420 Circulating at 432 GPM. Decoding is 100%.
  - 1430 Continue repairing the top drive brakes, while the Rapid Spot pill sets up around the BHA.
  - 2135 Begin jarring on pipe.
  - 2331 Spot Rapid Spot pill and end circulating.

**20 June 2009**

- 0000 Depth: 15595 feet. RC: 29.5 hours OBT: 5.1 hours.
- 0409 Rig up wireline freepoint.
- 0645 Run in hole with wireline to freepoint prior to backing off.
- 1300 Out of hole with wireline, string shot did not go off.
- 1415 Trip in hole with second string shot.
- 1600 Wireline cable got kinked while running in the hole.
- 1630 Waiting on a replacement spool of wireline cable.
- 1830 Begin circulating and jarring.
- 2254 Pump Rapid Spot pill.
- 2330 Stop circulating and rig up wireline.

**21 June 2009**

- 0000 Depth: 15595 feet. RC: 34.3 hours OBT: 5.1 hours.
- 0100 Run in hole with wireline to freepoint prior to backing off.
- 0520 Out of hole with wireline. Charges fired but pipe did not back off.
- 0630 Work pipe and jar on stuck BHA.
- 0730 Pipe becomes free at 15145 feet. Work remaining drill pipe and circulate at low flow rate.
- 0815 Continue to circulate and condition the mud while working the drill pipe.
- 1015 Start to back ream out of the hole.
- 1400 Circulate at the bottom of casing.
- 1555 Pump slug.

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1605 Pull out of the hole to pick up a hole opener assembly.

**22 June 2009**

0000 Depth: 15595 feet. RC: 34.5 hours OBT: 5.1 hours. Continue out of the hole.

0200 Pipe out of hole. Top of the fish is at 15055 feet.

0205 Pick up hole opener BHA.

0410 Trip in hole with hole opener. Break drill pipe at each connection, inspect same, and re-dope the threads.

2130 At the casing shoe, cut and slip drill line and service the top drive.

**23 June 2009**

0000 Depth: 15595 feet. RC: 34.5 hours OBT: 5.1 hours. Circulate and condition mud.

0130 Continue in the hole.

0140 Begin reaming at 13316 feet.

0845 Ream down to 13981 feet. Hole is packing off.

0930 Attempt to back ream out of the hole.

1100 Inside casing.

1115 Pump slug and pull out of the hole.

1730 Out of the hole with the hole opener assembly.

1740 Lay down hole opener and extra heavy weight drill collars.

1755 Pick up 2 7/8 inch tubing and trip in the hole with cementing assembly.

**24 June 2009**

0000 Depth: 15595 feet. RC: 34.5 hours OBT: 5.1 hours. Continue tripping in the hole with cementing assembly.

0400 Tag up at 13974 feet, cannot get any deeper.

0430 Circulate and condition the mud.

0830 Rig up and test cement lines.

**0845 Start cement operations to abandon nuclear sources.**

**0940 Power goes out to the entire rig.**

**1010 Power is restored to the MWD logging cabin.**

**1100 Finish setting cement plug. Pull out of the hole 10 stands.**

**1145 Circulate and reverse out inside of casing.**

1415 Pull out of the hole.

1850 Lay down 2 7/8 inch tubing.

2100 Out of hole with 2 7/8 inch tubing.

2145 Pull out wear bushing.

2200 Rig up test lines for BOP testing.

2315 Begin BOP test.



INTEQ

# Sources Stuck in Hole



Baker Atlas

|   |  |                      |                      |
|---|--|----------------------|----------------------|
| Job Number                                  | 2554415  |                      |                      |
| Gamma Source serial number (and activity)   | Cesium-137.  | 92.5 GBq.            | SN: PP27822B         |
| Neutron Source serial number (and activity) | Am-241/Be.   | 185 GBq.             | SN: PB35960B         |
| Stuck time / date                           | 20:10 / 17 June 2009   |                      |                      |
| Abandon time/date :                         | Approval date/time:  | 12:00 / 24 June 2009 | 09:45 / 22 June 2009 |
| Location                                    | Field: South Timbalier Block 290<br><br>Well Name: OCS-G 16454 A025 ST00BP00<br>Surface Location: 28° 09' 48.313" N<br>90° 21' 31.622" W |                      |                      |
| Rig / platform                              | H&P 100  |                      |                      |
| Well  | OCS-G 16454 A025 ST00BP00  |                      |                      |
| Operator                                    | Apache Corporation   |                      |                      |
| Company Man                                 | Tom Henley   |                      |                      |
| Regulatory Authority                        | Nuclear Regulatory Commission  |                      |                      |
| License reference if available              | NRC License 17-27437-01  |                      |                      |
| Radiation Protection Supervisor             | William Ashmore  |                      |                      |
| Water depth                                 | 483 feet   |                      |                      |
| Hole depth (MD & TVD)                       | 15595 feet MD / 10783 feet TVD   |                      |                      |
| Top of Fish                                 | 15055 feet MD / 10459 feet TVD   |                      |                      |
| Bit depth (MD & TVD)                        | 15565 feet MD / 10765 feet TVD   |                      |                      |
| Gamma Source Location                       | 15514 feet MD / 10734 feet TVD   |                      |                      |
| Neutron Source Location                     | 15504 feet MD / 10728 feet TVD   |                      |                      |

Notes:

Reported by: William Ashmore

Date: 18 June 2009

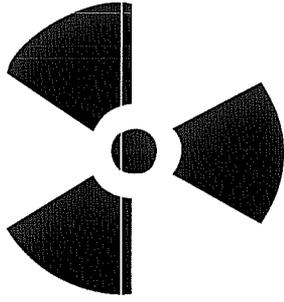
Send to the Base RPS

Copy to be placed in well file

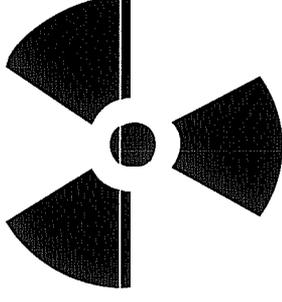
APACHE CORPORATION  
OCS-G 16454 A025 ST00BP00

South Timbalier Block 290

N 28 deg 09' 48.313" & W 90 deg 21' 31.622"



**CAUTION**



**ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED**  
**June 24, 2009 AT 15,514 FT MD. (10,734 FT TVD ) AND ONE 5**  
**CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED June 24,**  
**2009 AT 15,504 FT MD ( 10,728 FT. TVD ). TOP OF FISH AT**  
**15,055 FT MD (10,459 FT TVD).**

**DO NOT ENTER WELL BEFORE CONTACTING**

NUCLEAR REGULATORY COMMISSION