

## Trifiletti, Sue

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**From:** Thompson, James  
**Sent:** Friday, September 03, 2010 2:54 PM  
**To:** Trifiletti, Sue  
**Subject:** FW: Baker Hughes Final Abandonment report for Apache Corporation, OCS-G 05800 A005 ST01BP00, in Ewing Banks Block 826  
**Attachments:** NRC\_Abnd 090310.pdf

Sue, could you please place this into ADAMS as Public non-sensitive.

Thanks,  
-James

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**From:** Yunker, John A. (Tony) [mailto:John.Yunker@bakerhughes.com]  
**Sent:** Friday, September 03, 2010 2:14 PM  
**To:** Thompson, James  
**Subject:** Baker Hughes Final Abandonment report for Apache Corporation, OCS-G 05800 A005 ST01BP00, in Ewing Banks Block 826

Mr. Thompson:

Here is the final abandonment report for Baker Hughes INTEQ for Apache Corporation in Ewing Banks Block 826. Should you have any questions, please give me a call. Do you need a hard copy sent to yo?

Regards:

**John A. Yunker** | Technical Support Engineer  
**Baker Hughes** | North American Region / Gulf of Mexico  
Office: +1.337.321.4926 | Fax: +1.337.321.4608  
Cell: +1.337.962.0983 | [john.yunker@bakerhughes.com](mailto:john.yunker@bakerhughes.com)  
<http://www.bakerhughes.com> | *Advancing Reservoir Performance*

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September 01, 2010



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 July 29 2010, 20:10 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be -	Serial Number: SS44834B	QSA GLOBAL AMN.CY3
2.5 Ci (92.5 GBq) Cesium-137 -	Serial Number: PP24468B	QSA GLOBAL CDC.CY4

(3) Surface Location & Well Identification:

Operator -	Apache Corporation
Rig -	H&P 100 (Helmrich & Payne Corporation)
Well -	OCS-G 05800 A005 ST01BP00
Field -	Ewing Banks Block 826
Rig Surface Location -	N 28° 09' 48.211" and W 90° 21' 31.566"
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 -	17,586 feet Measured Depth (13,508 ft. TVD)
Cesium-137 -	17,596 feet Measured Depth (13,514 ft. TVD)

(7) Top of Cement Plug: Approximately 14,440 feet Measured Depth (11,677 ft. TVD)

Operator pumped a 20 bbl Ultra Flush high viscosity spacer at 16.5 ppg followed by a 17.2 ppg cement slurry of Class H cement followed by another high viscosity spacer at 16.5 ppg to balance at 15,635 feet MD (12,376 feet TVD). Then the operator sidetracked the well utilizing the top of the fish as the deflection device.

(8) Depth of Well: 17,853 feet Measured Depth (13,666 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 that reads "John A. Yunker".

John A. Yunker  
Radiation Safety Officer

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## **Apache Corporation**

*OCS-G 05800 A005 ST01BP00*

*OCS-G 05800 A005 ST01BP01*

*Ewing Bank Block 826*

*Offshore, Louisiana*

Submitted By:

Bill Ashmore

Chuck Huval

Bryan Powell

Bobby Bennett

Field Service Engineers

Date: 12 August 2010

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## Disclaimer

Baker Hughes INTEQ does not guarantee the accuracy or correctness of interpretations provided in or from this report. Since all interpretations are opinions based on measurements, Baker Hughes INTEQ shall under no circumstances be responsible for consequential damages or any other loss, costs, damages or expenses incurred or sustained in connection with any such interpretations. Baker Hughes INTEQ disclaims all expressed and implied warranties related to its service which is governed by Baker Hughes INTEQ's terms and conditions.

## Chronological Drilling Summary



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**29 July 2010**

- 0000 Midnight depth is 17458 feet. Run circulation is 67.2 hours and on bottom at 45.7 hours.
- 0114 Pump sweep at 17430 feet.
- 0253 Take slow pump rates at 17567 feet with a 15.9 ppg mud weight.
- 0305 Resume drilling.
- 0341 Pump sweep at 17589 feet.
- 0350 1000 units of gas.
- 0355 Off bottom at 17601 feet to circulate out gas.
- 0530 Mud cut to 15.1 ppg.
- 0535 Rack back 2 stands and then circulate gas out of mud.
- 0541 Increase mud weight to 16.1 ppg from 15.9 ppg.
- 0635 Simulate a connection (static).
- 0650 Take slow pump rates with a 16.1 ppg mud weight.
- 0655 Trip back in the hole.
- 0705 Resume drilling at 17601 feet.
- 0835 Pump sweep at 17667 feet.
- 0930 Gas is 1100 units at 17708 feet.
- 1045 Pump sweep at 17764 feet.
- 1210 Off bottom at 17831 feet to circulate out gas.
- 1305 Resume drilling (Max gas = 5000 units, mud cut = 14.7 ppg).
- 1335 Drill to 17853 feet. Circulate out gas prior to making a connection.
- 1350 This will be TD for the well. Pump sweep and circulate it around before back reaming out of the hole.
- 1610 Take slow pump rates with a 16.3 ppg mud weight.
- 1620 Start to back ream out of the hole.
- 1630 Circulate one stand off bottom while changing the dies in the drill pipe slips.
- 1835 Continue to back ream out of the hole.
- 1840 BHA is stuck at 17667 feet.
- 1845 Work pipe and attempt to free BHA.
- 2008 Decrease mud weight to 16.0 ppg from 16.3 ppg.

2300 Circulating and moving pipe.

**30 July 2010**

0000 Midnight depth is 17853 feet. Run circulation is 89.4 hours and on bottom at 53.6 hours.

0045 Moving pipe.

0115 Slow pump rates in preparation to cut back mud weight to 15.9.

0245 Decrease mud weight to 15.9 ppg from 16.0ppg.

0253 Circulating while not moving drill string.

0435 Flow check (-).

0500 Wireline crew arrives on location.

0730 Rig up wireline.

0930 Run freepoint.

2130 Run back off.

2350 Attempt to sever drill pipe at 16887 feet.

**31 July 2010**

0000 Midnight depth is 17853 feet at TD. Run circulation is 96.3 hours and on bottom at 53.6 hours. Attempt to sever drill pipe.

0124 Failed to back off drill pipe. Retrieve wireline.

0340 Run wireline with second back off charge.

0450 Attempt to sever drill pipe at 16887 feet again.

0600 Retrieve wireline.

1015 Drop dart in BHA.

1105 Test pressure lines.

1120 Trying to get dart to seat in release sub.

1415 Pressure up and detonate dart.

1430 Rig down pump in lines.

1455 Work pipe and attempt to free drill string.

1500 Circulating at 420 GPM with 2400 psi. There are no pulses. Bottom of the drill string was parted at 17306 feet.

1800 Run wireline free point.

**01 August 2010**

0000 Midnight depth is 17853 feet at TD. Run circulation is 96.3 hours and on bottom at 53.6 hours. Attempt set wireline string shot.

0100 Running wireline string shot.

0220 Set off charge at 15690 feet.

0230 Drill string is severed at 15690 feet.

0344 Rig down wireline.

0415 Pull ten stands.

0515 Circulate bottoms up at 14800 feet.

0705 Pump slug.

0715 Pull out of the hole to pick up fishing assembly.

1315 Out of the hole with drill pipe.

1400 Pick up fishing assembly and trip in hole with same.

2047 Service top drive at the shoe.

2150 Continue to trip in hole.

**02 August 2010**

0000 Midnight depth is 17853 feet at TD. Run circulation is 96.3 hours and on bottom at 53.6 hours. Fishing operations.

0053 Engage fish at 15690 feet.

0102 Begin jarring on stuck pipe.

0332 Continue to jar and work pipe.

0530 Continue to work pipe.

0550 Pump rapid spot pill.

0900 Rig up wireline.

0945 Trip in hole and attempt to back off pipe at 15632 feet.

1115 Retrieve wireline, could not back off pipe.

1245 Trip in hole with free point.

1700 Retrieve free point. Pipe is free at 15220 feet.

1900 Trip in with severing tool.

2000 Sever drill pipe at 15222 feet.

2200 Rig down wire line.

- 2240 Pull into casing.
- 2250 Circulate and condition the mud.
- 2320 Work on the mud pumps.

**03 August 2010**

- 0000 Midnight depth is 17853 feet at TD. Run circulation is 96.3 hours and on bottom at 53.6 hours.
- 0330 Lay down wireline lubricator and side door entry sub.
- 0400 Continue circulating.
- 0500 Pump slug.
- 0515 Pull out of the hole.
- 1130 Out of the hole with remains of fishing assembly.
- 1430 Cut and slip drill line.
- 1640 Pick up 2 7/8 inch tubing.
- 1930 Trip in hole to set cement plug for the bypass.

**04 August 2010**

- 0000 Midnight depth is 17853 feet at TD. Run circulation is 96.3 hours and on bottom at 53.6 hours.
- 0027 Rig up lines to pump cement.
- 0120 Trip in 2 stands and circulate.
- 0401 Start pumping cement on top of the fish at 15222 feet.
- 0530 Pull 10 stands.
- 0620 Circulate inside casing above the cement top. The top of the cement is supposed to be at 14722 feet.
- 0735 Pump slug.
- 0745 Pull out of the hole.
- 1350 Start laying down tubing.
- 1615 Finish laying down tubing, clean off rig floor.
- 1800 Retrieve wear bushing and clean out the well head.
- 1910 Rig up chocks and lines to test BOPs.
- 2010 Test BOPs.

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**05 August 2010**

- 0020 Finished BOP testing, rig down chocks and lines.
- 0210 Start picking up steerable BHA.
- 0435 Plug into OnTrak tool. Initialize memories, perform tool verification, and turn on PGAM battery.
- 0455 Unplug from tool.
- 0500 Scribe mud motor to OnTrak tool (180 degrees).
- 0515 Tool below rotary. **Begin INTEQ Run 5.**
- 0845 Shallow test tool – OK (350 GPM with 1400 psi).
- 0850 Set block height.
- 0900 Continue tripping in the hole.
- 1510 Tag cement at 14440 feet with 20k WOB.
- 1515 Set bit depth at 14405 feet.
- 1520 Start drilling cement at 14440 feet. **Begin AP Run 5.**
- 1913 Start drilling new formation.
- 2014 Start time drilling at 15049 feet (3 ft/hr).
- 2347 Time drilling at 15061 (6 ft/hr).

**06 August 2010**

- 0000 Midnight depth is 15062 feet. Run circulation is 8.2 hours and on bottom at 4.1 hours.
- 0132 Time drilling at 15081 (10 ft/hr).
- 0450 Take slow pump rates at 15153 feet with a 15.9 ppg mud weight.
- 0500 Decrease mud weight to 15.7 ppg from 15.9 ppg.
- 0510 Resume drilling.
- 0533 Pump sweep at 15169 feet.
- 0935 Pump sweep at 15353 feet.
- 1105 Retake survey at 15297 feet (sensor depth).
- 1120 Pump sweep at 15368 feet.
- 1335 Pump sweep at 15463 feet.
- 1500 Drill to 15532 feet. Take check shot and circulate sweep out.
- 1600 Take slow pump rates with a 15.7 ppg mud weight.

- 1615 Start to pull up to casing.
- 1630 Inside casing, start rigging up wire line.
- 1855 Trip back to bottom.
- 1950 Run Gyro surveys.
- 2350 Set bit depth at 15443 feet.

**07 August 2010**

- 0000 Midnight depth is 15532 feet. Run circulation is 24.6 hours and on bottom at 16.5 hours.
- 0005 Resume Drilling.
- 0425 Pump sweep at 15706 feet.
- 0455 Take slow pump rates at 15720 feet with a 15.7 ppg mud weight.
- 0505 Resume drilling.
- 0655 Pump sweep at 15808 feet.
- 0855 Pump sweep at 15895 feet.
- 1005 Recycle pumps for MWD at 15925 feet.
- 1015 Resume drilling.
- 1130 Pump sweep at 16001 feet.
- 1330 Pump sweep at 16080 feet.
- 1405 Take slow pump rates at 16098 feet with a 15.7 ppg mud weight.
- 1415 Resume drilling.
- 1605 Pump sweep at 16184 feet.
- 1807 Pump sweep at 16286 feet.
- 2025 Pump sweep at 16365 feet.
- 2230 Pump sweep at 16453 feet.

**08 August 2010**

- 0000 Midnight depth is 16509 feet. Run circulation is 47.6 hours and on bottom at 35.3 hours.
- 0059 Pump sweep at 16557 feet.
- 0120 Circulate bottoms up at 16570 feet prior to short trip.
- 0310 Take slow pump rates with a 15.7 ppg mud weight.

0327 Back ream to the casing shoe.  
0620 Circulate inside casing.  
0750 Flow check (-).  
0800 Rig down wireline equipment.  
0845 Perform rig maintenance.  
0920 Finished rig maintenance, trip back to bottom.  
1005 Ream last stand to bottom.  
1020 Resume drilling.  
1450 Take slow pump rates at 16759 feet with a 15.7 ppg mud weight.  
1500 Resume drilling.  
1615 Pump sweep at 16817 feet.

**09 August 2010**

0000 Midnight depth is 17085 feet. Run circulation is 67.2 hours and on bottom at 46.8 hours.  
0152 Pump sweep at 17152 feet.  
0336 Take slow pump rates at 17230 feet with a 15.7 ppg mud weight.  
0345 Resume drilling.  
0508 Off bottom at 17290 feet due to mud cut of 15.3 ppg.  
0535 Resume drilling.  
0715 Increase the mud weight to 15.8 ppg from 15.7 ppg at 17352 feet.  
0820 Off bottom at 17391 feet due an increase in torque (from 20k to 26k).  
0830 Resume drilling.  
0920 Take slow pump rates at 17420 feet with a 15.8 ppg mud weight.  
0925 Pump sweep.  
0935 Simulate a connection.  
0950 Resume drilling.  
1240 Pump sweep at 17522 feet.  
1440 Pump sweep at 17609 feet.  
1710 Pump sweep at 17707 feet.  
1829 Gas 5000 units with a mud cut of 15.3 ppg.

1944 Back ream out of hole.

2332 Bit inside casing, circulate bottoms up.

**10 August 2010**

0000 Midnight depth is 17730 feet. Run circulation is 88.1 hours and on bottom at 61 hours.

0135 Pump slug.

0145 Pull out of the hole. **End AP Run 5.**

0930 Tool above rotary. **End INTEQ Run 5.**

0945 Plug into OnTrak tool. Download memories, perform tool verification, and turn off PGAM battery.

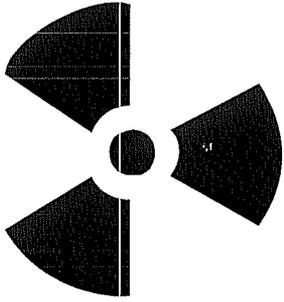
1010 Unplug from tool.

1200 Lay down BHA.

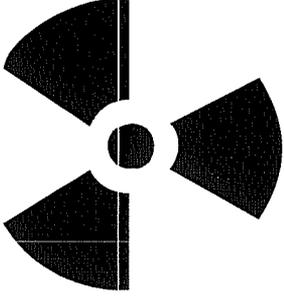
1500 End of MWD services for the well.



Apache Corporation  
OCS-G 05800 A005 ST01BP00  
Ewing Banks Block 826  
N 28 deg 09' 48.2111" & W 90 deg 21' 31.556"



# CAUTION



**ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED**  
**August 04, 2010 AT 17,596 FT MD. (13,514 FT TVD) AND ONE 5**  
**CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED August**  
**04,2010 AT 17,586 MD (13,508 TVD). TOP OF FISH AT**  
**15,222 FT MD (12,133 FT TVD).**

**DO NOT ENTER WELL BEFORE CONTACTING**

NUCLEAR REGULATORY COMMISSION



# Sources Stuck in Hole



INTEQ

Baker Atlas

Job Number	3184003
Gamma Source serial number (and activity)	Cesium-137. 92.5 GBq. SN: PP24468B
Neutron Source serial number (and activity)	Am-241/Be. 185 GBq. SN: SS44834B
Stuck time / date	1840 hrs / July 29, 2010
Abandoned time / date	0530 hrs / August 04, 2010
Location	H&P 100, Ewing Bank Block 826 Slot Lat:-28deg 09min, 48.211 sec Slot Long: -90 deg, 21 min, 31.556 sec
Rig / platform	H & P 100
Well	OCS-G 05800 A005 ST01BP00
Operator	Apache Corporation
OIM / Platform Manager	Boots Causey
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)	17853 feet / 13666 feet
Bit depth (MD & TVD)	17667 feet / 13555 feet
Gamma Source Location	MD = 17596 feet / TVD = 13514 feet
Neutron Source Location	MD = 17586 feet / TVD = 13508 feet

Notes:-

Reported by: - William Ashmore

Date:- July 29, 2010

Send to the Base RPS

Copy to be placed in well file