

February 24 2012



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

Re: NRC License No. 17-27437-01 (Docket 030-32818) Source Abandonment Report

(1) Date Occurrence: Tool stuck in hole on January 25, 2012 @ 23:20 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be -	Serial Number: SN1145	QSA GLOBAL, AN-HP
2.5 Ci (92.5 GBq) Cesium-137 -	Serial Number: PP27798B	QSA GLOBAL, CDC.CY4

(3) Surface Location & Well Identification:

Operator -	Apache Corporation
Rig -	Ensco 87
Well -	OCS-G 04232 A010 ST00BP00
Field -	Ship Shoal Block 189
Rig Surface Location -	N 28° 33' 52.066" and W 90° 48' 11.312"
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 -	19,013 feet Measured Depth (18,795 ft. TVD)
Cesium-137 -	19,022 feet Measured Depth (18,804 ft. TVD)

(7) Top of Cement Plug: Approximately 17,215 feet Measured Depth (16,997 ft. TVD)

Proposed Cementing Procedure was as follows:

Set Plugback Cement Plug at 17,215 ft. MD (16,997 ft TVD)

Pump 10 barrel un-weighted spacer then pump (284 sacks @ 1.06 ft³/sack) of class "H" cement mixed at 16.4 ppg. Follow with 5 barrels of un-weighted spacer and displace with 17.2 ppg mud.

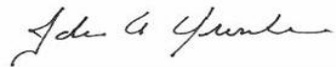
Client elected to use bottom hole assembly as (top of fish as deflection device).to sidetrack the well.

(8) Depth of Well: 19,132 ft. MD (18,914 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 black ink, appearing to read "John A. Yunker". The signature is written in a cursive style and is positioned above a thin horizontal line.

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

Apache Corporation

OCS-G 04232 A010 ST00BP00, ST00BP01

Ship Shoal Block 189

Offshore, Louisiana

Submitted By:

Cian Thomas

Amos Judson

Hai X. Bui

Robert Bell

Jeffery Wiehe

Steven Mathes

Long Dinh

Field Service Engineers

Date: xx February 2012

Disclaimer

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Chronological Drilling Summary

25 January 2012

0000 Midnight depth is 18721 feet. Drilling Ahead.
0228 Begin slide drilling.
0322 Resume drilling.
0600 Increase RPM from 90 to 110 RPM for Level 7 Stick slip.
0603 Stick slip level 4.
0930 Pump sweep at 18852 feet.
1346 Pump sweep at 18965 feet.
1347 Tool stopped pulsing. Off bottom.
1348 Tool pulsing again.
1350 Back on bottom.
1550 Flow check at 19012 feet.
1611 160 units of gas.
1614 365 units of gas.
1659 385 units of gas.
1703 498 units of gas.
1840 202 units of gas.
1845 289 units of gas.
1846 Pump sweep at 19066 feet.
1850 314 units of gas.
2100 425 units of gas.
2108 450 units of gas.
2115 850 units of gas.
2120 1200 units of gas.
2133 1290 units of gas.
2145 Kelly down. Begin circulating.
2150 Back reaming stand.
2205 Shut down pumps to check for flow.
2208 Flow increased after pumps shut off. Well shut in.
2310 Attempting to rotate and move pipe. Unable to do so.
2320 Trying to move and set off jars. Unable to do so.

2320 Pipe stuck above jars.

26 January 2012

0000 Midnight depth is 19132 feet. Pipe stuck after shutting in well.
0742 Begin circulating.
0800 Working pipe.
0815 Stop attempting to work pipe. Will continue to try every 30 minutes.
0900 Attempting to work pipe. Failed.
0930 Attempting to work pipe. Failed.
1005 Attempting to work pipe. Failed.
1035 Attempting to work pipe. Failed.
1105 Attempting to work pipe. Failed.
1120 Attempting to work pipe. Failed.
1145 Attempting to work pipe. Failed.
1210 Attempting to work pipe. Failed.
1245 Attempting to work pipe. Failed.
1305 Attempting to work pipe. Failed.
1320 Attempting to work pipe. Failed.
1340 Attempting to work pipe. Failed.
1415 Attempting to work pipe. Failed.
1430 Attempting to work pipe. Failed.
1515 Attempting to work pipe. Failed.
1610 Attempting to work pipe. Failed.
1630 Wireline arrived on location. Begin rigging up wireline.

27 January 2012

0000 Rigging up for wireline operations.
0200 Found free point at 17365 feet.
0300 Rigging down wireline.
0400 Running in hole with back off assembly.
1100 Backed off pipe.

- 1115 Circulating after backing off.
- 1742 Increase MWin = 16.7 ppg.
- 1745 Continue to circulate and weight up mud.

28 January 2012

- 0000 Continue circulating.
- 0055 Finish circulating.
- 0130 Circulate.
- 0330 MWIN = 16.9 PPG.
- 0430 MWIN = 17.2 PPG.
- 0845 Lost circulation.
- 1035 Attempting to circulate. Rig losing returns.
- 1040 Stop pumping.
- 1525 Begin pulling 15 stands out of the hole.
- 1745 Pulled 15 stands and attempted to circulate and had no returns.
- 1910 Begin pulling out of hole.
- 2140 Stop pulling out of hole.
- 2245 Continue to pull out of hole.

29 January 2012

- 0000 Continue pulling out of hole.
- 0140 Monitor well and circulate at 12469 feet.
- 0345 Circulate.
- 0415 Continue pulling out of hole.
- 1630 Pick up jarring assembly and trip in hole.
- 1700 Trip in hole.

30 January 2012

- 0000 Continue pulling trip in hole.
- 0700 Begin spotting pill at shoe.
- 1000 Screwing into fish.

- 1115 Begin jarring on tool.
- 1800 Stop jarring.
- 1605 Rigging up wireline temperature and pressure logging tools.
- 1800 Running in hole with wireline tools.

31 January 2012

- 0000 Running noise temperature and pressure wireline logs.
- 0400 Wireline was able to reach 19000 feet.
- 0630 Performing free point operations.
- 0730 Coming out of hole with wireline.
- 1030 Out of the hole with wireline operations.
- 1100 Servicing the rig.
- 1200 Begin preparing to pump cement.
- 1400 Pumping cement downhole.
- 1700 Finished pumping cement.
- 1715 Waiting for cement to harden.
- 1815 Begin rigging up wireline for pipe severing.

01 February 2012

- 0800 FSE's leave the rig.

08 February 2012

- 2330 BHI personnel and tools arrive on location to side track the
OCS-G 04232 A010 ST00BP00 well.

09 February 2012

- 0900 Plug into tool.
- 0920 Deck test.
- 0927 Test memory.
- 0945 Unplug from tool.
- 1030 Plug into backup.

1045 Rig milling window.
2325 Rig up for FIT.

10 February 2012

0125 We got an unsuccessful FIT.
0130 Pull out of hole to pick up squeeze assembly.
1300 Out of hole. Pick up squeeze assembly.

11 February 2012

0430 Set RTTS but unable to break circulation.
0930 Test casing after squeeze.
1125 Trip out of hole to pick up bit and bit sub.
2030 Going back in the hole with bit and bit sub.

12 February 2012

1100 Start drilling out.
1700 Pump slug to pull out of hole.

13 February 2012

0200 Out of hole with bit.
0230 Trip back in the hole with squeeze assembly.
1505 Unable to circulate.
1515 Attempt to pump through the backside with Baker cement unit.
1630 Rig got a LOT of 17.7 ppg. Begin pulling out of the hole.

14 February 2012

0730 Rig up to test BOPs.
0915 Test BOPs.
1525 Cut and slip drill line.
2345 Begin picking up bottom hole assembly.

15 February 2012

- 0036 Scribe mwd to mud motor at 263°.
- 0045 Plug into tool.
- 0115 Unplug from tool.
- 0130 Tool below rotary. **Begin LWD Run 9.**
- 0350 Surface test tool.
- 0400 Tripping in the hole.
- 1225 At liner top.
- 1452 Set bit depth at 16940.92 feet.
- 1455 Fill pipe.
- 1503 Wash to bottom.
- 1520 Tool pulsing. Washing down to bottom.
- 1548 On bottom drilling at 17021 feet.
- 1723 Take slow pump rates at 17031 feet.
- 1745 Resume drilling.
- 2333 Lose returns at 17044 feet.
- 2338 Shut pumps off.
- 2345 Rack stand back.

16 February 2012

- 0000 Midnight depth is 17044 feet.
- 0002 FSE call coordinator about maximum LCM limitations of Sure Seal, Calcium Carbonate fine, and Calcium Carbonate medium that rig can pump through 6 ¾ tool. Coordinator recommend that the LCM needs to be well mixed and pump below startup of the tool.
- 0003 Pull bit inside casing.
- 0005 Call tech support about maximum LCM limitations for 6 ¾ tool. Tech support recommend a maximum of 100 lb/bbls total which consist of 40 lbs Calcium Carbonate fine, 40 lbs Calcium Carbonate medium, and 20 lbs of Sure Seal.
- 0053 Pump 50 lb/bbl of LCM pill which consist of 20 lb/bbls of Calcium

- Carbonate medium, 20 lb/bbls of Calcium Carbonate fine, and
10 lb/bbls of Sure Seal.
- 0105 Inform company representative that Baker office recommend LCM
well mixed and pump completely out of the tool below tool start up.
Company representative still insist to leave some LCM pill inside tool.
- 0227 Begin pulling 6 stands.
- 0342 Circulating.
- 0454 Pump 50 lb/bbl of LCM pill.
- 0532 Tripping back to bottom.
- 0603 Set bit depth at 16845.73 feet.
- 0700 Motor stalling, tool turning on and off.
- 0710 Tool pulsing.
- 0723 Pump sweep at 18852 feet.
- 0724 Resume drilling.
- 1123 Take slow pump rates at 17126 feet.
- 1148 Took check shot survey at 17068 feet.
- 1309 Took check shot survey at 17104 feet.
- 1315 Circulate before rigging up gyro with wireline.
- 1400 Rig up gyro with wireline.
- 2145 Set bit depth at 17132.68 feet.
- 2150 Resume drilling. Start time drilling.

17 February 2012

- 0000 Midnight depth is 17184 feet.
- 0216 Pump sweep at 17193 feet.
- 0937 Stall motor.
- 1032 Resume drilling.
- 1036 Turn off pumps
- 1037 Motor locked up holding 4500 psi of pressure.
- 1038 Turn pumps back on. Per the directional driller the motor is locked.
- 1045 Circulate and wait on orders.

- 1055 Decision to pull out of hole to change motors.
- 1100 Pulling out of hole.
- 1140 Tool is inside casing. **End AP Run 9.**

18 February 2012

- 0000 Continue pulling out of the hole.
- 0220 Plug into tool. Dump, verify, check memory.
- 0230 Tool above rotary. **End LWD Run 9.**
- 0530 Scribe mwd to mud motor at 24°.
- 0600 Tool below rotary. **Begin LWD Run 10.**
- 0630 Trip in hole.
- 0715 Good surface test.
- 0737 Discuss tool readings with technical support. All verifications checked out. Okay to run the tool.
- 0905 Fill pipe.
- 0910 Continue to trip in hole.
- 1755 Set bit depth to 16845.73 feet.
- 1815 Run gyro to orient mud motor out of the casing window.
- 2245 Pulling out of the hole with wireline after orienting mud motor out of the casing window.

19 February 2012

- 0000 Continue pulling out the hole with wireline.
- 0204 Set bit depth to 16940.94 feet.
- 0206 Stage pumps up.
- 0230 Shut pumps off.
- 0238 Tool is outside casing. **Begin AP Run 10.**
- 0255 Wash stand down.
- 0329 Set bit depth to 17132.70 feet.
- 0503 Resume drilling.
- 0624 Motor stall.

- 0700 Trouble kicking off.
- 0746 Resume drilling ahead.
- 0758 End drilling at 17220 feet. Una having trouble kick off. Bit may be damaged.
- 0830 Decision made to pull out of hole. Plan is to cement and kick off the whip stock.
- 0835 Circulate before pulling out of hole.
- 1050 Pump slug.
- 1115 Tool inside casing. **End of AP Run 10.**
- 1120 Trip out of hole.
- 1440 Monitor well.
- 1450 Continue to trip out of the hole.
- 2045 Plug into tool.
- 2108 Unplug from tool.
- 2115 Tool above rotary. **End LWD Run 10.**
- 2253 Pick up cement assembly.
- 2303 Tripping in the hole with cement assembly.

20 February 2012

- 0000 Continue tripping in the hole with cement assembly.
- 0855 Program back up tool.
- 0920 Turn off battery to tool.
- 0925 Unplug from tool.
- 1315 Cement hole.
- 1325 Restore database.
- 1400 Create bypass well.
- 1649 Begin pulling out of the hole with cement assembly.

21 February 2012

- 0000 Continue pulling out of the hole with cement assembly.
- 1300 Work on trip tank.
- 1500 Slip and cut drill line.

- 1805 Plug into tool.
- 1820 Program tool.
- 1827 Verify and dump tool.
- 1850 Unplug from tool.
- 1900 Tool below rotary. **Begin LWD Run 11.**
- 1927 Tripping in the hole.
- 2105 Good surface test.
- 2133 Continue tripping in the hole.

22 February 2012

- 0000 Continue tripping in the hole.
- 0735 Set bit depth at 16178 feet.
- 0750 Wash down.
- 1010 Tool pulsing. Rotating down at 16958 feet.
- 1030 Tag cement at 17026 feet.
- 1035 Circulate bottoms up.
- 1440 Rig up wire line for gyro.
- 1935 Begin orienting mud motor out of casing window with gyro.
- 2006 Pull out of the hole with wireline.
- 2303 Set bit depth to 16945.57 feet.
- 2340 Resume drilling.

23 February 2012

- 0000 Midnight depth is 17030 feet.
- 0807 Off bottom for motor stall.
- 1327 Take slow pump rates.
- 1353 Take check shot survey at 17071 feet.
- 1355 Resume drilling.
- 1637 Pump sweep at 17164 feet.

24 February 2012

0000 Midnight depth is 17250 feet.
0515 Take check shot survey at 17225 feet.
1007 Slow pump rates at 17323 feet.
1043 Pump sweep at 17332 feet.
1132 Check shot survey.
1430 Stop drilling at 17356 feet.
1440 Decision to pull out of the hole for BOP testing.
1449 First good survey at 17291 feet.
1450 Circulate bottoms up.
1545 Begin pulling out of the hole.

25 February 2012

0000 Midnight depth is 17356 feet.
0400 Plug into tool.
0436 Unplug from tool.
0445 Tool above rotary. **End LWD Run 11.**
0547 Backup database.
0630 Rig up test plug.
0815 Begin testing BOPs.
1320 Finish testing BOPs.
1430 Pick up BHA.
1445 Plug into tool.
1447 Initialize memory and verify.
1502 Reset flow on counters.
1505 Unplug form tool.
1510 Tool below rotary. **Begin LWD Run 12.**
1635 Good surface test.
1645 Continue tripping in the hole.

26 February 2012

0000 Continue tripping in the hole.

0259 Set bit depth to 16945.27 feet.
0302 Tool is outside casing. **Begin AP Run 12.**
0324 Begin washing stands down to bottom.
0408 Reset bit depth to 17329.82 feet.
1145 Slow pump rates at 17420 feet.
1512 Pump sweep at 17453 feet.
1755 Pump sweep at 17498 feet.
2216 Pump sweep at 17526 feet.

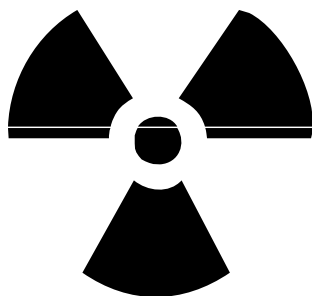
27 February 2012

0000 Midnight depth is 17535 feet.
0910 Survey flagged. Cycle pumps for survey.
0914 Cycle pumps for flagged survey.
0923 Cycle pumps for flagged survey.
0925 Called technical support about the flagged surveys and they approved passing the survey.
1209 Slow pump rates at 17706 feet.
1413 Pump sweep at 17736 feet.
1808 Pick up off bottom at 17794 feet to check for flow. No flow.
1920 Stop drilling at 17802 feet.
1942 Circulating gas units out.
2239 Begin pulling out of the hole due to mud motor failure.
2335 Tool is inside casing. **End AP Run 12.**

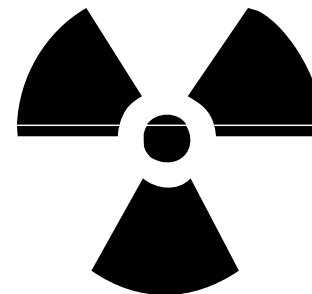
Apache Corporation.
0CS-G 04232 A010 ST00 BP00

Ship Shoal Block 189

N 28 deg 33' 52.066" & W 90 deg 48' 11.312"



CAUTION



ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED
Jan. 31, 2012 AT 19,022 FT MD. (18,803 FT TVD) AND ONE 5
CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED Jan. 31,
2012 AT 19,013 FT. MD (18,795 FT. TVD). TOP OF FISH AT
17,632 FT MD (17,414 FT TVD).

DO NOT ENTER WELL BEFORE CONTACTING

NUCLEAR REGULATORY COMMISSION

Sources Stuck in Hole

Job Number	4061529
Gamma Source serial number (and activity)	Cesium-137. 92.5 GBq. SN: PP27798B
Neutron Source serial number (and activity)	Am-241/Be. 185 GBq. SN: SN1145
Stuck time / date	23:20 / Jan 25, 2012
Abandoned time / date	11:00 / Jan 31, 2012
Location	Ship Shoal Block 189 Wellhead Lat: 28 deg 33min, 52.066 sec N Wellhead Long: 90 deg, 48 min, 11.312 sec. W
Rig / platform	Ensco 87
Well	OCS-G 04232 A010
Operator	Apache Corporation
OIM / Platform Manager	Richard Hartfield
Regulatory Authority	Nuclear Regulatory Commission (NRC)
License reference if available	17-27437-01
Radiation Protection Supervisor	Jeffery Wiehe
Water depth	77 ft
Hole depth (MD & TVD)	19132 ft MD / 18914 ft TVD
Bit depth (MD & TVD)	19100 ft MD / 18882 ft TVD
Gamma Source Location	MD=19022 ft / TVD=18804 ft / N=-551.72ft / E=1098.36ft
Neutron Source Location	MD=19013 ft / TVD=18795 ft / N=-551.70ft / E=1097.53ft

Notes:-

Reported by : - Jeffery Wiehe

Date:- January 26, 2011

Send to the Base RPS

Copy to be placed in well file