

January 26, 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 December 31, 2011 @ 03:20 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be - Serial Number: SS54153B QSA GLOBAL, AMN.CY3  
2.5 Ci (92.5 GBq) Cesium-137 - Serial Number: PP34656B QSA GLOBAL, CDC.CY4

(3) Surface Location & Well Identification:

Operator - Chevron Corporation  
Rig - Hercules 120  
Well - OCS-G 01373 BA013 ST01BP02  
Field - Main Pass Block 41  
Rig Surface Location - N 29° 24' 34.596" and W 88° 58' 56.554"  
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 - 11,876 feet Measured Depth (9,118 ft. TVD)  
Cesium-137 - 11,884 feet Measured Depth (9,125 ft. TVD)

(7) Top of Cement Plug: Approximately 9,367 feet Measured Depth (6,954 ft. TVD)

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Cementing Procedure was as follows:

**Set Cement Plug (No. 1) from 11,606 ft. MD (8,864 ft TVD) to 11,972 ft. MD (9,208 ft. TVD)**

Pump 10 barrel spacer @ 13.0 ppg then pump 88 sacks of TX cement with additives at 13.5 ppg with 1.27 cu/ft yield (20 bbls/112 cubic feet total slurry). Chase with 5 barrel spacer at 13.0 ppg and displace with 190 barrels of 11.9 ppg Synthetic Based Mud.

**Set Cement Plug (No. 2) from 10,788 ft. MD (8,116 ft TVD) to 11,287 ft. MD (8,566 ft. TVD)**

Pump 232 sacks of TX cement with additives at 14.0 ppg with 1.15 cu/ft yield (47.5 bbls/226 cubic feet total slurry). Displace with 184 barrel synthetic based mud @ 11.9 ppg and spot as balanced plug.

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

**Set Cement Plug (No. 3) from 10,254 ft. MD (7,670 ft TVD) to 10,754 ft. MD (8,086 ft. TVD)**

Pump 248 sacks of Class H cement with additives at 16.4 ppg with 1.07 cu/ft yield (47.5 bbls/266 cubic feet total slurry). Displace with 175 barrel synthetic based mud @ 11.9 ppg and spot as balanced plug.

**Set Cement Plug (No. 4) from 9,367 ft. MD (6,954 ft TVD) to 10,185 ft. MD (7,614 ft. TVD)**

Pump 420 sacks of Class H cement with additives at 17.4 ppg with 0.95 cu/ft yield (71 bbls/399 cubic feet total slurry). Displace with 162 barrel synthetic based mud @ 11.9 ppg and spot as balanced plug.

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

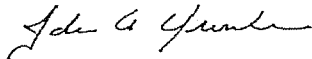
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(8) Depth of Well: 11,972 ft. MD (9,208 ft. TVD)

(9) Other Information: N/A

(10) Agencies Notified: Nuclear Regulatory Commission

Thank you for your attention to this matter,



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

## **Chevron U.S.A. Inc.**

OCS-G 01373 BA013 ST01BP00 / OCS-G 01373 BA013 ST01BP02  
/ OCS-G 01373 BA012 ST01BP03

*Main Pass Block 41 / Breton Sound Block 56  
Offshore, Louisiana*

Submitted By:

Karoly Repasi

John Anderson

Andrew Kopfinger

Robert Guidry

Ian Oliver

Mounir El Saleh

Field Service Engineers

Date : 05 January 2012

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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**

**30 December 2011**

0000 Drilling ahead at 10998 feet MD. Run circulation time is 60.3 hours.  
On bottom time is 36.8 hours.

0038 Downlink TI= 24.48 deg, WF= -12.90%.

0207 Downlink TI= 23.22 deg.

0253 Cycle pumps for survey.

0304 Downlink WF= -16.129.

0310 Pump sweep at 11177 feet.

0334 Downlink TI= 21.78 deg.

0419 Downlink WF= -25.806%.

0446 Downlink TI= 20.88 deg.

0514 Take slow pump rates.

0555 Downlink TI= 20.16 deg.

0649 Max gas is 400.

0801 Downlink WF = -9.677%, abort.

0822 Mud weight in is 11.1 ppg at 11580 feet.

0824 Top drive stall at 11582 feet.

0846 Downlink WF = 0%.

0920 Circulate off bottom.

1155 Top drive stall at 11641 feet.

1641 Take slow pump rates.

1659 Downlink WF = 0%.

1743 Pump sweep at 11741 feet.

1848 Top drive stalled at 11744 feet.

1924 Cycle pumps for MWD.

1937 Resume drilling.

**31 December 2011**

0000 Drilling ahead at 11863 feet MD. Run circulation time is 83.1 hours.  
On bottom time is 53.3 hours.

- 
- 0135 Pump sweep at 11922 feet.
  - 0256 Max gas is 3941.
  - 0304 Circulate off bottom.
  - 0322 Bottom hole assembly stuck in hole
  - 0347 Shut in well.
  - 0354 Circulate through the choke.
  - 1330 Mud weight in is 11.4 ppg at 11972 feet.
  - 2033 Mud weight in is 11.7 ppg at 11972 feet.

### **01 January 2012**

- 0000 Circulating on choke is 11972 feet MD. Run circulation time is 104 hours. On bottom time is 56.1 hours.
- 0345 Start circulating though the drill pipe below tool operating threshold.
- 0350 Start jarring in attempt to free bottom hole assembly.
- 1200 Jarring up and down trying to free bottom hole assembly.
- 1800 Jarring up and down trying to free bottom hole assembly.
- 2325 Wire line unit and crew arrive at rig.

### **02 January 2012**

- 0000 Circulating and jarring up and down trying to free bottom hole assembly. Run circulation time is 121.6 hours. On bottom time is 56.1 hours.
- 0005 Circulating and jarring up and down while waiting on weather (wind) to die down to rig up wireline unit.
- 0600 Jarring up and down trying to free bottom hole assembly.
- 1000 Pre job safety meeting with wireline crew to rig up wireline unit.
- 1030 Rigging up wire line unit.
- 1300 Shut pumps off to rig up lubricator for wireline unit. Driller notice that the well was flowing. Started circulating to kill well.
- 1400 Max gas 5000 units, Max mud cut 11.1ppg from a 11.7ppg.
- 1445 Mud weight going in 11.9ppg.
- 1751 Pump off no flow.
- 1824 Safety meeting with wireline crew and fishing hands.

- 
- 1910 Start rigging up wireline unit again.
  - 2228 Breaking circulation and filling pipe with cement unit.
  - 2231 Testing lines from cement unit to 6000psi.
  - 2241 Testing lubricator.
  - 2315 Running free point on wireline.

### 03 January 2012

- 0000 Running wireline free point. Run circulation time is 121.6 hours. On bottom time is 56.1 hours.
- 0058 Pumping wireline down with mud pumps.
- 0146 Wire line hung up on drill collars.
- 0230 Free up the wireline.
- 0300 Service rig.
- 1900 Rig down wireline. Decision to abandon BHA. **End AP and LWD run 7.**
- 2000 Continue jarring on the stuck BHA.

### 04 January 2012

- 0000 Jarring up and down trying to free bottom hole assembly. Run circulation time is 139 hours. On bottom time is 56.1 hours.
- 0030 Rig up cement lines and hold a JSA meeting.
- 0253 Test lines.
- 0430 Begin pumping cement. Space 15 bbls, cement 20 bbls, spacer 5 bbls, mud 196 bbls.  
Estimated top of cement 11606 feet MD / 8864 feet TVD.
- 1100 Rig up and run charges on wireline to sever pipe.
- 1300 Set charges. Pipe not free.
- 1330 Pull out wireline.
- 1520 Wireline out of hole. Charges lost in hole – empty wire.
- 1530 Rig down wireline. Get ready to continue jarring on stuck BHA.
- 1630 Jarring up and down.
- 1730 Rig up wireline.
- 1830 Break circulation with BJ unit and test lines.



1900 Trip in hole with 2 5/8" severing assembly.  
2030 Unable to trip further past 2108 feet. POOH.  
2130 Swap to 2" severing assembly.  
2200 Trip in hole.

### **05 January 2012**

0000 Continue tripping in the hole with the wireline severing assembly.  
0130 Sever pipe at 11287 feet MD / 8566 feet TVD.  
0200 Pull out of hole with wireline.  
0300 Rig down wireline.  
0500 Circulate bottoms up.  
0730 Rig up cementing lines to set a plug on top of the fish.  
0835 Test lines.  
0900 Pump cement plug #2.  
1030 Pull 5 stands out of hole.  
1800 FSE M. Hamdamov departs location.

### **13 January 2012**

0800 FSEs J. Anderson and Stephen Spurgeon arrive on location.  
1215 Plug into tools on deck.  
1340 Unplug from tools on deck.

### **14 January 2012**

0000 Performing rig maintenance.  
0130 Perform casing test.  
0830 Perform formation integrity test = 13.5 ppg.  
2225 Plug into tool in derrick.  
2240 Unplug from tool in derrick.  
2300 Tool below rotary. **Start LWD run 8.**

**15 January 2012**

0000 Pick up bottom hole assembly at 9680 feet.  
0149 Surface test at 300 gpm – successful.  
0154 Surface test downlink – successful.  
0200 Trip in hole.  
0830 Pressure sensor outside casing. **Start AP run 8.**  
0832 Set bit depth to 9608.00 feet, block height is 94.80 feet.  
0900 Take slow pump rates.  
0918 Downlink magnetic steer mode.  
0925 Drilling new formation for sidetrack.  
1035 Checkshot at 9669 feet.  
1042 Downlink TI= 34.92 deg, BF= 96.774%.  
1247 Off bottom to swap pumps.  
1258 Downlink WF= 0%, BF= 100%.  
1445 Side track well at 9720 feet.  
1714 Off bottom, losing mud over the shakers.  
1723 Resume drilling.  
1745 Drop ball to open the reamer blades.  
1906 Downlink TI= 30.06 deg.  
1935 Downlink WF= -16.129%, BF= 12.903%.  
2024 IBOP working improperly, pulling to casing shoe.  
2100 Working on IBOP inside casing.

**16 January 2012**

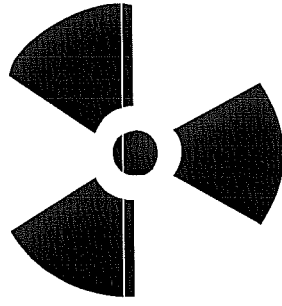
0000 Rig repairs at 9794 feet MD. Run circulation time is 11.7 hours.  
On bottom time is 8.8 hours.  
0130 Slip and cut drill line.  
1410 Trip in hole.  
1430 Set bit depth to 9702.80 feet, block height is 94.78 feet.  
1435 Flow is reversed in the IBOP.

1500 Pull to casing.  
1510 Pull inside casing shoe.  
1638 Trip in hole.  
1645 Set bit depth to 9702.80 feet.  
1648 Stage up pumps and wash to bottom.  
1711 Downlink hold mode.  
1734 Downlink TI= 33.48 deg.  
1906 Downlink WF= -22.581%.  
2040 Downlink WF= -12.903%, BF= 9.677%.  
2120 Downlink TI= 33.06 deg.  
2125 Pump sweep at 9890 feet.  
2218 Downlink BF= 6.452%.  
2252 Downlink TI= 32.04 deg, WF= -6.452%.

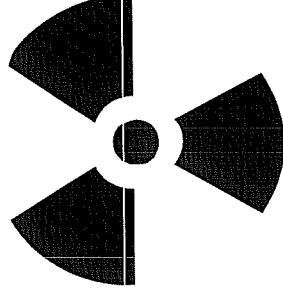
**17 January 2012**

0000 Drilling ahead at 10017 feet MD. Run circulation time is 18.8 hours.  
On bottom time is 14.8 hours.  
0114 Downlink TI= 30.42 deg, WF= -3.226%.  
0126 Pump sweep at 10093 feet.  
0456 Downlink TI= 29.88 deg, WF= 0%.  
0807 Take slow pump rates.  
0824 Pump sweep at 10462 feet.

Chevron Corporation.  
OCS-G 01373 BA013 ST01 BP02  
Main Pass Block 41  
N 29 deg 24' 34.596" & W 88 deg 58' 56.554"



# CAUTION



**ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED**  
**Jan. 04, 2012 AT 11,884 FT MD. (9,125 FT TVD ) AND ONE 5**  
**CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED Jan, 04,**  
**2012 AT 11,876 FT. MD (9,118 FT. TVD ). TOP OF FISH AT**  
**11,287 FT MD (8,566 FT TVD).**

**DO NOT ENTER WELL BEFORE CONTACTING**

NUCLEAR REGULATORY COMMISSION



INTEQ

# Sources Stuck in Hole



Baker Atlas

Job Number	4313443
Gamma Source serial number (and activity)	Cesium-137. 92.5 GBq. SN: PP34656B
Neutron Source serial number (and activity)	Am-241/Be. 185 GBq. SN: SS54153B
Stuck time / date	03:22 / Dec 31, 2011
Abandoned time / date	04:30 / January 4, 2012
Location	Main Pass Block 41 Wellhead Lat: 29 deg 24 min, 34.596 sec Wellhead Long: 88 deg, 58 min, 56.554 sec.
Rig / platform	Hercules 120
Well	OCS-G 01373 BA013 ST01BP02
Operator	Chevron U.S.A. Inc.
OIM / Platform Manager	Ronnie Zeagler
Regulatory Authority	Nuclear Regulatory Commision
License reference if available	17-27437-01
Radiation Protection Supervisor	Robert Guidry
Top of Fish	11,287 ft. MD (8,566 ft. TVD)
Water depth	48 ft
Hole depth (MD & TVD)	11972 ft MD / 9208 ft. TVD
Bit depth (MD & TVD)	11942 ft MD / 9180 ft. TVD
Gamma Source Location	MD=11884 ft / 9125 ft. TVD / N= 5802.22 ft / E= -2964.75 ft
Neutron Source Location	MD=11876 ft / 9118 ft. TVD / N= 5801.52 ft / E= -2962.09 ft

Notes:-

Reported by: Robert Guidry

Date: January 01, 2012

Send to the Base RPS

Copy to be placed in well file