

June 30, 2016



Nuclear Regulatory Commission Region IV
1600 E. Lamar Blvd.
Arlington, Texas 76011-4511
Attn.: Mr. Mark Shaffer, Director, Division of Nuclear Materials Safety

Re: NRC License No. 42-02964-01 Source Abandonment Report

(1) Date Occurrence: Tool stuck in hole on June 07, 2016 @ 07:00 hrs.

(2) Irretrievable Source Descriptions:

5 Ci (185 GBq) Americium-241/Be -	Serial Number: SN-91091B	QSA GLOBAL, AMN.CY3
2.5 Ci (92.5 GBq) Cesium-137 -	Serial Number: SN-39412B	QSA GLOBAL, CDC.CY4

(3) Surface Location & Well Identification:

Operator -	Cobalt International Energy, LP
Rig -	Rowan Reliance
Well -	OCS-G 30924 001 ST00BP01
Field -	Keathley Canyon Block 129
Rig Surface Location -	N 26° 50' 54.191" and W 91° 55' 07.340"
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 -	32,714 feet Measured Depth (32,553 feet. TVD)
Cesium-137 -	32,723 feet Measured Depth (32,562 feet. TVD)

(7) Logging Operations prior to cement operations

Wireline logs were completed prior to the cementing and abandoning procedures were commenced. Four separate wireline runs were made and they consisted of the following:

- Run 1 OMRI, AST & Gamma Ray to 26,400 feet MD (26,327 feet TVD)
- Run 2 OMRI, AST & Gamma Ray to 28,214 feet MD (28,074 feet TVD)
- Run 3 VSP to 28,100 feet MD (27,964 feet TVD)
- Run 4 Gamma Ray collar locator to 23,400 feet MD (23400 feet TVD)

(8) Top of Cement: Approximately 1st Plug 30,800 feet MD (30,638 feet TVD), 2nd Plug 27,960 feet MD (27,839 feet TVD) and bridge plug/whipstock 23,020 feet MD (23,020 feet TVD)

Proposed Cementing Procedure was as follows:

First Cement Plug 31,500 – 30,800 feet MD.

1. Slip and cut 2-1/8" drill line on main rotary. Service TDX-1250.
2. M/U 5" cement diverter and TIH drill pipe as per schedule:
3. Continue TIH with cement diverter to 31,500 feet MD.
4. Circulate bottoms up with 15.4 ppg SBM at 8-10 bbl/min.
5. M/U cement stand with TIW's above and below side-entry sub.
6. Position cement diverter at 31,500 feet MD and R/U cement hose.
7. Close upper TIW valve and put 1,000 psi on valve.
8. Break circulation with Halliburton unit with 10 bbls of 15.9 ppg Tuned Spacer and test lines to 5,000 psi.
9. Halliburton mix and pump the following: Plug #1 (30,800 feet MD – 31,500 feet MD)
 - 83 bbls of 15.9 ppg Tuned Spacer at 6-8 bpm
 - 112 bbls (452 sks / 630 ft3) of 16.6 ppg slurry at 4-5 bpm
 - 13 bbls of 15.9 ppg Tuned Spacer at 6-8 bpm
 - 20 bbl of 15.4 ppg SBM at 6-8 bpm
10. Bleed pressure off on upper TIW valve and open valve.
11. Using RIG PUMPS, displace cement with 721 bbls of 15.4 ppg at 8-10 bbl/min. Under-displace volume as directed by Cobalt representative.
 - Rotate drill string at 20 rpm while displacing cement
12. Once displacement is complete pull 15 stands (Pull first 4 stands at 30-50 ft/min)
13. Drop drill pipe wiper ball and circulate drill string volume or as directed by Cobalt representative.
 - Rotate and reciprocate drill string while circulating

14. POOH and test BOP's on 6-5/8" and 5" drill pipe.
15. Once BOP testing is complete, TIH and tag TOC at ~30,800 feet MD. Confirm with 15k set down.

Second Cement Plug 28,660 – 27,960 feet MD.

16. POOH and position cement diverter to 28,660 feet MD.
17. Circulate as directed with 15.4 ppg SBM at 8-10 bbl/min.
18. M/U cement stand with TIW's above and below side-entry sub.
19. Position cement diverter at 28,660 feet MD and R/U cement hose.
20. Close upper TIW valve and put 1,000 psi on valve.
21. Break circulation with Halliburton unit with 10 bbls of 15.9 ppg Tuned Spacer and test lines to 5,000 psi.
22. Halliburton mix and pump the following: Plug #2 (27,960 feet – 28,660 feet MD)
 - 77 bbls of 15.9 ppg Tuned Spacer at 6-8 bpm
 - 104 bbls (539 sks / 584 ft3) of 16.4 ppg slurry at 4-5 bpm
 - 17 bbls of 15.9 ppg Tuned Spacer at 6-8 bpm
 - 20 bbl of 15.4 ppg SBM at 6-8 bpm
23. Bleed pressure off on upper TIW valve and open valve.
24. Using RIG PUMPS, displace cement with 645 bbls of 15.4 ppg at 8-10 bbl/min. Under-displace volume as directed by Cobalt representative.
 - Rotate drill string at 20 rpm while displacing cement
25. Once displacement is complete pull 15 stands (Pull first 4 stands at 30-50 ft/min).
26. Drop drill pipe wiper ball and circulate drill string volume or as directed by Cobalt representative.
 - Rotate and reciprocate drill string while circulating
27. POOH with drill pipe and prepare for 14" packer operations.

Client elected pump 2 cement plugs and set whiptock to sidetrack the well.

(9) Depth of Well: 33,036 ft. MD (32,874 ft. TVD)

(10) Other Information: N/A

(11) Agencies Notified: Nuclear Regulatory Commission

Thank you for your attention to this matter,



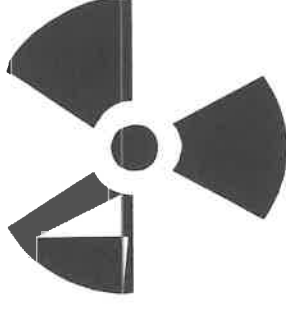
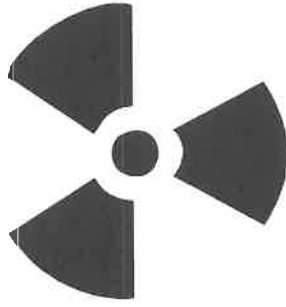
John A. Yunker
Radiation Safety Officer
[E-mail: john.yunker@bakerhughes.com](mailto:john.yunker@bakerhughes.com)

Cobalt International Energy, LP

OCS-G 30924 001 ST00BP01

Keathley Canyon Block 129

N 26 deg 50' 54.191" & W 91 deg 55' 07.340"



CAUTION

ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED
June 14, 2016 AT 32,723 FT MD. (32,562 FT TVD) AND ONE 5
CURIE AM-241/Be RADIOACTIVE SOURCE ABANDONED June
14, 2016 AT 32,715 FT. MD (32,553 FT. TVD). TOP OF FISH AT
31,558 FT MD (31,396 FT TVD).

DO NOT ENTER WELL BEFORE CONTACTING

Nuclear Regulatory Commission