

# HALLIBURTON

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3000 N. Sam Houston Parkway, East • Building M, Room M1F21  
Houston, Texas 77032-3219  
Direct: 281-871-5745 • Fax: 281-871-7119

24 February, 2009

U.S. Nuclear Regulatory Commission - Region IV  
Texas Health Resources Tower  
612 E. Lamar Blvd., Suite 400  
Arlington, TX 76011-4125

Attn: Division Director - DNMS

Re: Notification of Source Abandonment USNRC License # 42-01068-07

Dear Sir:

This letter comprises the required 30 day notification of source abandonment as per 10CFR 39.77(d) as a follow-up to the telephone conversation with your office on 01 February, 2009.

Date of Occurrence: 30 January, 2009

Source(s) Abandoned: One (1) 19.0 Curie Am-241 Be doubly encapsulated radioactive source, Solid, Special Form. AEA Technology QSA Model AMN-CY19. Source Serial Number 0026NN.

One (1) 2.0 Curie. Cs-137 doubly encapsulated radioactive source, Solid, Special Form. AEA Technology QSA Model CDC.CY13. Source Serial Number 16156B.

Sources held in a source housing, screwed in and locked in place, into the sidewall of a heavy pipe wall Measurement While Drilling logging tool.

Two (2) 0.1 microCurie Cs-137 doubly encapsulated radioactive source, Solid, Special Form located in Density MWD tool. St. Gobain Model .75SG 2.25-Cs137-XR. Source Serial Number 102729 and 104833.

Company Name, Surface Location and Well Identification: Anadarko Petroleum Co.  
OCS-G-19028 # 4  
East Breaks Block 599

Casing Depth: 8,895 ft. MD (7,609 ft. TVD)

Depth of the Cement Abandonment Plug(s): 8,771 ft. MD (7,569 ft. TVD)– 8,869 ft. MD (7,623 ft. TVD) (Abandonment plug)

Kick-off and Sidetrack Depth after Abandonment: 8,738 ft. MD (7,549 ft. TVD)

Depth to Top of the Fish: (Top of Abandoned Drillstring) 8,869 ft. MD (7,623 ft. TVD)

Length of Abandoned Drillstring Located above Abandoned Sources: 423 ft. of original drill string length containing the sources.

Depth of Sources: The 19.0 Ci. Am-241 Be source is located at 9,185 ft. MD (7,798 ft. TVD). The 2.0 Ci. Cs-137 source is located at 9,202 ft. MD (7,807 ft. TVD).

Bit Depth: 9,292 ft. MD (7,859 ft. TVD)

Depth to Bottom of Well: 10,160 ft. MD (8,331 ft. TVD)

Description of Recovery Attempts: 30-Jan-09 05:00 BHA in tight spot.

30-Jan-09 06:00 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

30-Jan-09 07:30 BHA out of tight spot.

30-Jan-09 10:00 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

30-Jan-09 10:05 BHA stuck.

30-Jan-09 12:20 Jarring on tool string.

30-Jan-09 22:00 Rigged up wire line for free point run.

30-Jan-09 23:30 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

31-Jan-09 03:30 Started first run for wire line down hole.

31-Jan-09 04:30 Took radiation survey @ shakers,

mud pits, and flow line / 0.01 mR/hr.

31-Jan-09 07:00 TIH with wire line for free point.

31-Jan-09 08:45 Determined sever point @ 8,869 ft. MD.

31-Jan-09 09:32 Lee Fowler with MMS gave verbal approval to plug and abandon and sidetrack East Breaks 599 # 4.

31-Jan-09 12:15 Severed drill pipe @ 8,869 ft. MD.

31-Jan-09 12:30 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

31-Jan-09 12:50 Attempted to free severed drill pipe.

31-Jan-09 14:10 Started pulling first freed stands of drill pipe.

31-Jan-09 15:00 Pulled two stands of drill pipe.

31-Jan-09 16:30 Pumped 30 bbl slug, then POOH.

31-Jan-09 20:35 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

31-Jan-09 21:30 Laid down wire line and side door entry sub.

31-Jan-09 22:30 Picked up Scrapper BHA and started to TIH.

01-Feb-09 02:30 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

01-Feb-09 07:00 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

01-Feb-09 12:30 Chuck Cain with the NRC was contacted about the proposed abandonment and verbal approval was granted.

01-Feb-09 14:30 Laid down casing scrapper assembly.

01-Feb-09 21:45 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

01-Feb-09 22:00 Set EVSV @ 8,869 ft. MD.

01-Feb-09 23:00 Tested Packer with 500 psi.

02-Feb-09 00:00 Pulled stinger from EZSV @  
8,865 ft. MD. Pumped 25 bbls "Mudpush" spacer  
followed by 20 bbls cement. 105 sks Class "H" w/  
0.02 gps D47 + 0.1 gps D500 + 0.01D185 +  
0.03gps D186, 20 bbls, 122 cuft, mixed @ 16.4  
ppg, 1.07 yeild and 5 bbls spacer; displaced down  
DP w/180.5 bbls of 12.9 ppg mud until cement was  
10 bbls above EZSV, then stung into retainer.  
Pressured csg to 400 psi and squeezed 12.5 bbls (65  
sx, 70 cuft) cenent below EZSV at 1 BPM w/ 215  
psi (held 400 psi on backside). SD pump & bled csg  
pressure to 0 psi. Open annular BOP and pulled out  
of retainer and dumped 7.5 bbls (40 sx, 42 cuft)  
cement on top of EZSV – calc TOC @ 8,815 ft.  
MD. RD Dowell-Schlumberger line; racked back  
cement stand & pulled 2 stands DP up to 8,650 fy.  
MD.

02-Feb-09 03:30 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

02-Feb-09 07:45 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

02-Feb-09 08:30 PU 13 5/8" EZSV & running  
tool. TIH from RKB to 8,607 ft.MD

02-Feb-09 16:30 Pick up out of EZSV. Circulate  
at 1062 gpm w/ 2430 psi and boost at 510 gpm  
while cutting MW to 12.0 ppg in & out, flush  
through choke & kill lines.

02-Feb-09 19:35 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

02-Feb-09 20:00 Slug DP and POOH – L/D EZSV  
running tool.Start to POOH.

02-Feb-09 23:30 Rigging up Wood Group wire  
line.

03-Feb-09 03:30 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

03-Feb-09 04:15 Slipping and cutting drill line.

03-Feb-09 06:00 Start testing BOP's.

03-Feb-09 10:15 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

03-Feb-09 18:00 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

03-Feb-09 20:00 P/U Whipstock assy. And MWD  
tools.

03-Feb-09 23:45 TIH w/ Baker whipstock & mills  
assy on DP. Tag EZSV @ 8,607 ft. MD, Anchor  
latch assy set at 47° left of highside w/ 34K down;  
shear off whipstock w/ 70K.

04-Feb-09 03:00 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

04-Feb-09 05:00 SPT MWD tool @ 3,000 ft. MD.

04-Feb-09 11:30 Milling window in 13 5/8"  
casing f/ 8,577 ft. to 8,597 ft. MD

04-Feb-09 17:00 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

05-Feb-09 03:15 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

05-Feb-09 05:30 Perform LOT.

05-Feb-09 07:00 Drilled 137 ft of formation to  
sidetrack well.

05-Feb-09 12:00 POOH.

05-Feb-09 18:00 Took radiation survey @  
shakers, mud pits, and flow line / 0.01 mR/hr.

06-Feb-09 00:15 Laid down MWD tool string.

06-Feb-09 01:30 P/U wash sub and TIH to clean wellhead.

06-Feb-09 05:00 POOH with wash assembly.

06-Feb-09 09:00 P/U drilling BHA w/ MWD tool and start in hole.

06-Feb-09 17:30 Tagged bottom and began drilling.

06-Feb-09 19:00 Took radiation survey @ shakers, mud pits, and flow line / 0.01 mR/hr.

06-Feb-09 23:48 Took good survey to show the well was side tracked.

Results of Efforts to Immobilize and Seal the Source in Place:

On 02 February, 2009 the radioactive sources and remaining BHA were immobilized by placement of a cement plug.

Warning Statement:

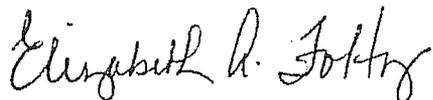
A warning plaque will be made and provided to Anadarko Petroleum Co. for mounting on the wellhead. It will not be possible to mount the plaque at the present time since there is no permanent structure available at this location. See attachment for Warning Statement plaque.

Other Agencies Notified in Writing:

Minerals Management Service – Lake Charles District  
U.S. NRC Document Control Desk (Washington, D.C.)

If you have any questions, please call me at (281) 871-5745 or e-mail me at [Elizabeth.Foltz@Halliburton.com](mailto:Elizabeth.Foltz@Halliburton.com).

Respectfully,



Elizabeth A. Foltz  
Radiation Safety Officer  
Halliburton Energy Services

Attachments: Warning Statement

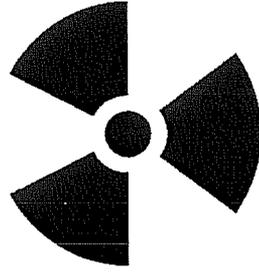
cc: Harry Hitt – Broussard, LA  
NRC License File

HL1376.doc

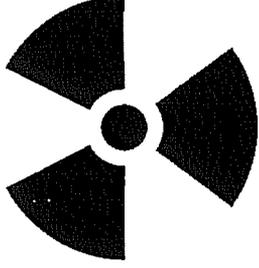
**ANADARKO PETROLEUM CO.**

**OCS-G-19028 # 4**

**EAST BREAKS BLOCK 599**



**CAUTION**



ONE 19.0 CURIE Am-241Be RADIOACTIVE SOURCE,  
AND ONE 2.0 CURIE Cs-137 RADIOACTIVE  
SOURCE ABANDONED 01 FEBRUARY 2009 AT  
9,185 FT. MD (7,798 FT. TVD), AND AT 9,202 FT MD  
(7,807 FT. TVD). PLUG BACK DEPTH 8,771 FT. MD  
(7,569 FT. TVD) AVOID BORE BELOW PLUG BACK,  
AND DO NOT REENTER THIS WELL BELOW PLUG  
BACK BEFORE CONTACTING U.S. NUCLEAR  
REGULATORY COMMISSION