

HALLIBURTON
Global Radiation Safety
3000 N. Sam Houston Parkway East · Building M, Room M1F21
Houston, Texas 77032-3219

July 29, 2015

U.S. Nuclear Regulatory Commission – Region IV
612 East Lamar Blvd., Suite 400
Arlington, TX 76011-4125

Attn: Division Director - DNMS

Re: **Notification of Well Logging Sealed Source Abandonment**
Halliburton Energy Services, Inc.
USNRC License No. 41-01068-07

This letter comprises the required 30-day written notification of source abandonment as required by 10 CFR 39.77(d). This is a follow-up to the communications between Steve Woods (Halliburton) and Mr. Rick Munzo (NRC Region IV) on June 23, 2015, in which permission to proceed with the abandonment was granted.

Date of Occurrence: June 17, 2015

Company Name: Hillcorp Alaska, LLC
3800 Center Point Drive, Anchorage AK 99503

Well Name & Registration No.: Blossom 1
50-133-20648-00-00

Well Location: 1155 FSL, 373.7' FEL, Section 14, T1N, R13W
NAD 27, X=231717 and Y=2258334
Kenai Borough, Alaska

Sources Abandoned: Two 4 Curie Am-241/Be doubly- encapsulated radioactive sealed source, solid, special form. QSA Global, Model AMN.CY17. Source Serial Numbers 7081NN and 7082NN. One 2 Curie Cs-137 doubly-encapsulated radioactive sealed source, solid, special form. AEA Technologies, Model CDC.CY13 Source Serial Number 23638B along with two Cs-137 pulsar sources, Eckert & Ziegler Model A3888, Source Serial Number I5-946 containing 230 nCi and Source Serial Number J5-412 containing 135 nCi.

Logging sources held within the source ports contained within the sidewall of the logging while drilling tool.

Sources threaded into the source ports.

Immobilization method:

Cement plug on top of the fish. The cement plug and 4200 feet of drill pipe also serves as the kickoff device. .

Results of Efforts to Immobilize and set sources in place:

Abandonment procedure successfully completed on 30 June, 2015

Depth of Well:

12,099 ft. MD, 8,409 ft. TVD

Depth of Sources:

Am-241/Be sources 12, 013 ft. MD, 8,323 ft. TVD
Cs-137 source 12,028 ft. MD, 8,338 ft. TVD

Depth of Top of Fish:

7,805 ft. MD, 4,375 ft. TVD

Depth of Bottom of Cement Plug :

7,700 ft. MD, 4,270 ft. TVD

Depth of Top of Cement Plug :

7,500 ft. MD, 4,083 ft. TVD

Description of Recovery Attempts:

On the morning of 6-17-2015 we were proceeding to drill to TD 12215MD at 12,099' (05:50) the drill string started torquing up Driller tried to pick up off bottom and became stuck. Since 6AM we have been jarring and working stuck pipe, attempting to rotate. Currently rigging up wireline to perform a free point and back off string.-----

Thursday the 18th – attempted running in with E-Line could only get to 2200MD due to loosing circulation. Rigged down E-Line to work pipe to establish circulation once again Rigged up E-line with more rollers on tool in hopes of getting down to the 75 degree well . Only reaching a depth of 2300, Rigged down E-line and Rigged up a different truck with smaller line after multiple attempts they only reached 1930 MD R/D E line worked pipe while waiting on pump truck and hard line.-----

Friday the 19th- Rigged up pressured up to 6900 Psi, bled back to 5900 psi and had no returns , Rigged down Pump truck and began banging away with Drilling Jars. Slick line came on location and was Rigged up ran in the hole with 2 inch dummy drift gun drift and failed to get past 2300md. Rig slipped and cut drill line and continued Jarring and working pipe free with rotary and pumps with no luck while waiting on CTU.

Saturday the 20th –Coil Tubing Unit was rigged up. Sunday the 21st – Continued rigging up coil tubing unit and tested coils tubing's BOP's and RIH with Perforation guns. Guns were fired but not sure of successful Perforation -----

Monday 22nd –Severing tool was set on depth of 11,675 and pressured up to 3600psi to sever pipe and establish circulation while pumping at 1.5 bpm the had returns of 7.4 barrels per Hour. (Just a trickle) Rig down tubing and bops began

working and Jarring on pipe Jars were wore out at this point. Put coil tubing back on well and started running in with severing gun.

Tuesday the 23rd Rigged up coil tubing back on well and started running in with severing gun got on depth at 11,450 MD pressured up and guns were fired, still unable to Circulate, Pooh.

Wednesday-24th rigged CTU down continued working pipe trying different techniques. Pumping with 1400-2000psi down the back side to see were pack off was. Rigged up Pump truck and pressured lines up to 7500 psi-----

Thursday 25th Rigged up CTU and went in with third severing tool attempt at 7800md, had a successful attempt and was able to gain circulation, MWD hand monitored bottoms up. POOH continually circulating currently rigging down CTU to pull pipe. Circulated 300 GPM Drill string had approximately 20k of stored energy (torque) that came loose, as the blocks were lowered. Pulled severed pipe to surface. BHA was not present.

Friday 26th Performed BOP test. Picked up and RIH clean out run.

Saturday-27th Tagged fish at 7805 MD Pooh and picked up Fishing BHA. RIH and Latched on to the fish with overshot fishing tool continued to work pipe and Jar without any success. Still not able to circulate while latched on to the fish. Sunday- 28th Continued to jar until 6am, Rigged up and RIH with Wireline. First Attempt (2.25 OD) would not pass through the Heavyweight second attempt (2.125 OD) was successful. Able to get down to 11,258 with wire line coming out of hole to rig down slick line and rig up E-Line with Free point. RIH E-Line with Free point tool, finding Free Point at 10,660.

Monday- 29th POOH Free Point tool and RIH again with Severing Tool. Activated Severing tool at depth 10,600, at which point wireline became stuck.

Tuesday 30th cemented fish.

Warning Plaque:

A permanent identification warning plaque will be fabricated and provided to Hilcorp Alaska, LLC. for mounting at the well head as practicable. See Attachment 1 for a representation of the plaque to be provided.

Sincerely,



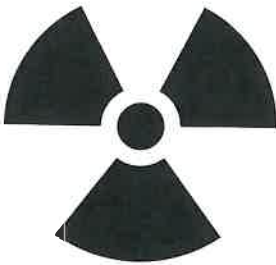
Steve Woods
Sr. Radiation Safety Officer
Halliburton Energy Services, Inc.
Email: Steve.Woods@Halliburton.com

Attachment: (1) Representation of Warning Plaque

ATTACHMENT 1

ABANDONMENT PLAQUE

Hilcorp Alaska, LLC
50-133-20648-00-00



CAUTION



TWO 4 CURIE Am-241Be RADIOACTIVE SOURCES, AND ONE 2.0
CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED 30 JUNE
2015 AT 12,013 FT. MD, 8,323 FT. TVD AND AT 12,028 FT
MD. 8,338 FT. TVD, PLUG BACK DEPTH 7,500 FT. MD, 4,083 FT.
TVD AVOID BORE BELOW PLUG BACK, AND DO NOT RE-ENTER
THIS WELL BELOW PLUG BACK BEFORE CONTACTING
U.S. NUCLEAR REGULATORY COMMISSION

Representation of Permanent Warning Plaque