

3000 N. Sam Houston Parkway East · Plaza 1, Room 5320L Houston, Texas 77032-3219



DNMS

October 17, 2014

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. 42-01068-07

This letter comprises the 30-day written notification of source abandonment as required by 10 CFR 39.77(d). This is a follow-up to the communications between Mr. Steven Woods, (Senior RSO, Halliburton) and Mr. James Thompson (NRC Region IV) on October 9, 2014, in which permission to proceed with the abandonment was granted. The abandonment procedure was completed on October 11, 2014.

Date of Occurrence: 11 October 2014

Company Name: Hilcorp Alaska, LLC

3800 Centerpoint Dr.; Suite 1400

Anchorage, AK 99503

Well Name & Registration No.: Paxton #7

50-133-20643-00-00

Well Location: Ninilchick

Kenai Borough Kenai, AK

Sources Abandoned: One 2.0 Curie Cs-137 doubly-encapsulated radioactive

> sealed source, solid, special form. OSA Global, Inc. Model CDC.CY13. Source Serial Number 39381B.

One 15.0 Curie Am-241/Be doubly-encapsulated radioactive sealed source, solid, special form.

QSA Global, Inc. Model AMN.CY19.

Source Serial Number 84492B.

Logging sources held within the source ports contained within the sidewalls of heavy pipe wall Logging While Drilling (LWD) logging tools. Sources threaded into the

source ports and torqued down.

PUBLIC

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NON-PUBLIC

■ A.3 Sens Related

A.7 Sens Other:____

Reviewer: _____ Date: ____

Two Energy Compensation Sources (ECS) were contained within the detector assembly installed in the density logging tool:

One 95.63 nanoCurie Cs-137 ECS source, Eckert & Ziegler Model IND1402. Source serial number H3-626.

One 109 nanoCurie Cs-137 ECS source, Eckert & Ziegler Model IND1402. Source serial number H2-698.

<u>Immobilization method:</u> An 1136 foot cement plug was used to immobilize the

logging tool's bottom hole assembly (BHA) containing the sources in place. The BHA was completely entombed within the cement plug. The plug serves as

the deflection device.

Results of Efforts to Immobilize and

set sources in place:

Abandonment procedure successfully completed on 11

October 2014.

Depth of Well: 4695 ft. MD / 2193 ft TVD

Depth of Bottom of Fish: 3916 ft. MD / 1962 ft TVD

Depth of Sources: Cs-137 sources located at 3839 ft MD / 1939 ft TVD

Am-241/Be source located at 3826 ft MD / 1935 ft TVD

Depth of Top of Fish: 3562 ft MD / 1855 ft. TVD

Depth of Bottom of Cement Plug: 4695 ft. MD / 2193 ft TVD

Depth of Top of Cement Plug: 3559 ft MD / 1855 ft TVD

Summary of Event and Recovery Attempts:

October 5, 2014: While drilling the production hole on Paxton #7 at 4695' MD, mud returns were lost and the Bottom Hole Assembly (BHA) subsequently became stuck while attempting to pull out of the hole with the directional LWD assembly.

October 7 - 9, 2014: Fishing operations commenced. Started POOH after backing out of hole with drill pipe and pick up fishing jars. After several unsuccessful fishing attempts, customer decided to cease fishing operations and proceed with abandonment plans.

October 9, 2014: Halliburton RSO contacts NRC Region IV and permission was granted to proceed with the abandonment.

October 11, 2014: Cement pumped into hole and abandonment procedure successfully completed.

Warning Plaque:

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

Sincerely,

Elizabeth A. Foltz

Global Radiation Safety Officer Halliburton Energy Services, Inc. Email: Elizabeth.Foltz@Halliburton.com

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Attachment:

(1) Representation of Warning Plaque

ATTACHMENT 1

PAXTON #7 50-133-20643-00-00

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CAUTION



ONE 15.0 CURIE AM-241BE RADIOACTIVE SOURCE
AND ONE 2.0 CURIE CS-137 RADIOACTIVE
SOURCE ABANDONED 11 OCTOBER 2014 AT 3826
FT. MD / 1935 FT. TVD AND AT 3839 FT. MD / 1939
FT. TVD. PLUG BACK DEPTH 3559 FT. MD / 1855
FT. TVD. AVOID BORE BELOW PLUG BACK, AND
DO NOT RE-ENTER THIS WELL BELOW PLUG
BACK BEFORE CONTACTING THE
U.S. NUCLEAR REGULATORY COMMISSION

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