

HALLIBURTON

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June 4, 2010

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

RECEIVED
JUN - 8 2010
DNMS

Attn: Division Director - DNMS

Re: **Notification of Source Abandonment**
Halliburton Energy Services, Inc.
USNRC License # 42-01068-07

This letter comprises the required 30-day written notification of source abandonment as per 10 CFR 39.77(d). This is a follow-up to the telephone conversation between Steve Woods (Halliburton) and Mr. Charles Cain (NRC Region IV) on May 8, 2010 in which permission to proceed with the abandonment was granted.

Date of Occurrence: May 13, 2010

Company Name: Marathon Oil Company
5555 San Felipe Street
Houston, TX 77056

Well Name & Registration No: OCS-G-22971 001 ST001 BP01
60-811-40561-00

Well Location: Green Canyon 511
Offshore Gulf of Mexico
USA

Source(s) Abandoned: One 19 Curie Am-241/Be doubly-encapsulated special form radioactive source. QSA Global, Inc. Model AMN.CY19. Source Serial Number 4140NK.

One 2.0 Curie Cs-137 doubly-encapsulated special form radioactive source. QSA Global, Inc. Model CDC.CY13. Source Serial Number 49318B.

Logging sources held within source ports contained in the sidewalls of heavy pipe wall Measurement While Drilling (MWD) logging tools. Sources threaded into place and torqued down.

Two energy compensation sources contained within detector assembly installed in density tool collar. One 98.5 nanocurie Cs-137 sealed source, Saint Gabon .75SG2.25-CS137-XR, serial number 96090. One 109 nanocurie Cs-137 sealed source, Saint Gabon .75SG.75-CS137-XR, serial number 95847.

Depth of Well: 30,002 ft. MD (29,599 ft. TVD)

Depth of Bottom of Fish: 28,413 ft. MD (28,010 ft. TVD)

Depth of 19 Ci Am-241/Be source: 28,335 ft. MD (27,932 ft. TVD)

Depth of 2.0 Ci Cs-137 source: 28,321 ft. MD (27,918ft. TVD)

Depth of Top of Fish:
(Top of Abandoned Drillstring) 28,017 ft. MD (27,614 ft. TVD)

Length of Abandoned Drillstring
located above sources: 304 feet of drill pipe above abandoned sources

Depth of Bottom of Cement Plug: 29,504 ft. MD (29,137 ft. TVD)

Depth of Top of Cement Plug: 27,316 ft. MD (26,913 ft. TVD)
(2,188 ft. cement plug)

Recovery Efforts: May 6 2010 @ 2145 TD well, began to circulate and work pipe.
May 7 2010 @ 0730 Begin to back-ream two stands. Lose returns on second stand.
May 7 2010 @ 08:30 Begin to work pipe.
May 7 2010 @ 1000 Pipe stuck, unable to fire jars.
May 7 2010 @ 1245 pull free.
May 7 2010 @ 13:30 Losing returns / well control problems
May 7 2010 @ 1515 stuck and jarring
May 7 2010 @ 2000 Jarring at 28397
May 7 2010 @ 22:30 Stopped jarring, Started rigging up wireline.
May 8 2010 @ 4:30 lowering wireline tool down pipe to free point BHA
May 9 2010 @ 02:30 free point BHA at 28,109 and prepare to cement BHA in hole.

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

On May 13, 2010 the BHA with radioactive sources
and the drill string above the BHA were
immobilized by placement of a cement plug.

Warning Statement:

A warning plaque will be made and provided to
Marathon Oil Company for mounting on the
wellhead. See attachment for template of warning
plaque.

Regards,



Steve Woods
Sr. Radiation Safety Officer
Halliburton Energy Services

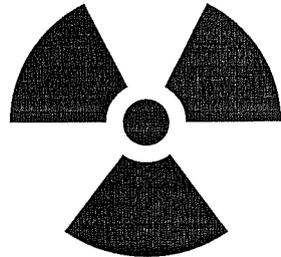
Attachments: Warning Statement

ABANDONMENT PLAQUE

Marathon Oil Company
OCS-G-22971 001 ST001 BP01
60-811-40561-00



CAUTION



ONE 19 CURIE Am-241Be RADIOACTIVE SOURCE, AND ONE 2.0 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED 13 MAY 2010 AT 28,355 FT. MD (27,932 FT. TVD), AND AT 28,321 FT MD (27,918 FT. TVD). PLUG BACK DEPTH 27,316 FT. MD (26,913 FT. TVD) AVOID BORE BELOW PLUG BACK, AND DO NOT RE-ENTER THIS WELL BELOW PLUG BACK BEFORE CONTACTING U.S. NUCLEAR REGULATORY COMMISSION