



01 December 2021

Nuclear Regulatory Commission Region IV  
1600 E. Lamar Blvd.  
Arlington, Texas 76011-4511  
Attn.: NRC Officer - Abandonment

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

(1) Date Occurrence: Tool stuck in hole: 31 October 2021 @ 17:57 hrs.  
Tool/Sources abandoned: 04 November 2021 @ 02:00 hrs.

(2) Irretrievable Source Descriptions:

2.5 Ci (92.5 GBq) Cesium-137:	Serial Number:	SN-71903B	QSA GLOBAL, CDC.CY4
5 Ci (185 GBq) Americium-241/Be:	Serial Number:	SN-91090B	QSA GLOBAL, AMN.CY3

(3) Surface Location & Well Identification:

Operator:	Cantium, LLC
Rig:	Enterprise 351
Field:	Main Pass Block 299
Well:	OCS-G 01316 BB011 ST00BP00
Rig Surface Location:	29° 15' 26.055" N & 88° 46' 22.684" W
General Area:	Offshore, Louisiana

(4) Results of Efforts Immobilize: Pumped cement to seal hole and immobilize/secure sources in place

(5) Recovery Efforts: Three attempts were made to recover/latch onto the fish/drill string containing the sources which remained in the wellbore.

1<sup>st</sup> Attempt – Screw back into fish/drill string – Failed  
2<sup>nd</sup> Attempt – Overshot – Failed  
3<sup>rd</sup> Attempt – New Overshot – Failed

(6) Depth of Source(s):

Cesium-137:	6442 feet Measured Depth (5198 feet TVD)
Americium-241/Be:	6432 feet Measured Depth (5192 feet TVD)

(7) Depth of Well: 6781 feet Measured Depth (5407 feet TVD)

(8) Other Information: Attached document(s) – Well Plaque Image  
Due to the fact this is a dry well head, the well plaque will be installed on the well head by the operator for future reference/visibility.

Tools/subs in which sources were installed:

Optimized Rotational Density (ORD) - Cesium-137  
Caliper Corrected Neutron (CCN) - Americium-241/Be

Length of deflection device or drill string above shallowest source sub:  
~1452 feet of drill string

At a bit depth of 6496 feet MD (5231 feet TVD), while reaming back to bottom after a short trip, excessive torque was encountered which facilitated the drilling jars to activate. This event caused the drill string to twist off/part at 4976 feet MD (4294 feet TVD). The drill string still connected to the surface was pulled from the wellbore and three attempts were made to recover the fish/drill string containing the sources which remained in the wellbore. All three attempts failed. A total of 1520 feet of drill string remained in the wellbore with 1452 feet of drill string remaining above the shallowest source sub as a deflection device. Cement was pumped on top of the fish at 4976 feet MD (4294 feet TVD) to 4659 feet MD (4097 feet TVD) to seal/secure the sources in place and to complete the abandonment. The well was successfully sidetracked at 4700 feet MD (4123 feet TVD).

(9) Agencies Notified: Nuclear Regulatory Commission  
Initial Contact/Abandonment: 03 November 2021 at ~15:00 hrs  
James Thompson - NRC

Thank you for your attention to this matter,



**Michael Trospen**

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Baker Hughes

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Cantium, LLC  
Main Pass Block 299  
OCS-G 01316 BB0011 ST00BP00  
29° 15' 26.055" N & 88° 46' 22.684" W



CAUTION



ONE 2.5 CURIE Cs-137 RADIOACTIVE SOURCE ABANDONED  
04 NOV 2021 AT 6442 ft. MD (5198 ft. TVD)

AND

ONE 5 CURIE AM-241/B<sub>e</sub> RADIOACTIVE SOURCE ABANDONED  
04 NOV 2021 AT 6432 ft. MD (5192 ft. TVD).

TOP OF FISH AT 4976 ft. MD (4294 ft. TVD).

DO NOT RE-ENTER WELL BEFORE CONTACTING  
NUCLEAR REGULATORY COMMISSION