



Fwd: Harkis 34-2 COA

Schlagenhauf - DNR, Mark <mark.schlagenhauf@state.co.us>

Fri, Mar 27, 2015 at 8:46 AM

To: Dan Willis - DNR <dan.willis@state.co.us>

Dan,

Plz add correspondence below to well file for API 123-21404-thx.

----- Forwarded message -----

From: **Schlagenhauf - DNR, Mark** <mark.schlagenhauf@state.co.us>

Date: Fri, Mar 27, 2015 at 8:30 AM

Subject: Re: Harkis 34-2 COA

To: "Kuzio, Kevin" <Kevin.Kuzio@anadarko.com>

Kevin,

This well hereby removed from the COA. Thanks for sending this CBL which we did not have in the file.

Mark Schlagenhauf P.E.
Northeastern Engineer

On Fri, Mar 27, 2015 at 7:57 AM, Kuzio, Kevin <Kevin.Kuzio@anadarko.com> wrote:

API # 05-123-21404

Hi Mark,

The Harkis 34-2 currently has a COA to prepare it for offset horizontal activity. Below is my research and summary as to why I think we meet all requirements for the COA.

Harkis 34-2: COA on HZ APD did not state any details as to why the COA was given. The original plan for the well was to P&A the well. On the approved Form 6 one COA for the P&A was "Run CBL and email to COGCC. If CBL does not show adequate Niobrara or Sussex isolation it must be added as part of this plugging procedure." This was due to the last CBL run in 2003 being of poor quality. The P&A was later cancelled and decision made to safety prep the well due to partner issues. The safety prep included setting a RPB, changing the well head to a flanged 5k Wh, and running the CBL 2/27/15 with Warrior WL. The Nio top is at 6828' and the TOC was found at 6060', providing 768' of coverage. Lead cement coverage also exists from 3044'- 4860'. This provides the required coverage over the Sussex, with its top being at 4470'. The CBL is attached as I'm not sure if it was or was not sent to the state. The deepest water well within 1 mile is to 640'. The surface casing on the well is to 830' exceeding the depth of the deepest water well within 1 mile. Therefore the surface casing is providing sufficient coverage over fresh water zones. In conclusion I believe the well is within standards and meets all the COA requirements.

If you do not agree with my summary please call and we can discuss further. We are looking to get the COA lifted sooner than later if possible.

Thanks!

Kevin Kuzio

GWA Safety Prep Engineer

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