

Light, Cheryl

From: Kremer, Anne
Sent: Monday, February 23, 2015 1:49 PM
To: Schlagenhauf - DNR, Mark
Cc: Heim, Rebecca; Light, Cheryl
Subject: RE: Harkis #3

Thank you Mark, We will run tubing with a production packer and move on to the next well.

Anne

From: Schlagenhauf - DNR, Mark [mailto:mark.schlagenhauf@state.co.us]
Sent: Monday, February 23, 2015 1:45 PM
To: Kremer, Anne
Subject: Re: Harkis #3

Anne,

I concur with your conclusions for this well.

Mark Schlagenhauf P.E.
Northeastern Engineer

On Mon, Feb 23, 2015 at 1:17 PM, Kremer, Anne <Anne.Kremer@anadarko.com> wrote:

Mark,

Attached is a new bond log for the Harkis #3 (API 05-123-10443). This well was identified on the COA's for the Greenleaf 28N-2HZ. I believe the COA asked for coverage over the Sussex/Shannon interval – 317 j.. The Form 4 we filed indicated we would cement both the SX/SH interval but also from the Fox Hills Marker into the surface casing shoe, 1400' -50'). We got the desired coverage over the SX/SH but came up short on the shallow coverage – with cement reaching only 490'. Bottom of shoe at 232'.

I would prefer we not shoot holes in the production casing at 480' and do a cement circulation to surface. I believe we have provided good isolation of the Fox Hills with the cement coverage indicated on this log and the required coverage over the Sussex.

Please let me know if will need to obtain further coverage over the shallow interval – 480' – 50', or if the coverage obtain will comply with the COA and Form 4. As always thank you for your time

Anne Kremer

Operations Advisor

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