

Dave

From: Andrews - DNR, David <david.andrews@state.co.us>
Sent: Wednesday, June 11, 2014 8:25 AM
To: Arvid Mosnes
Cc: Dave Cook; svein@kjellesvik.com; Erling Igor Heintz Siggerud; Lars Edward Rygg Kjellesvik; Chuck Browning - DNR; allinpro@bresnan.net; Steve Labowskie - DNR; Bill Yokley - DNR; Don Sharp - DNR; Jane Stanczyk - DNR; Craig Burger - DNR
Subject: Re: Fram Operating - Mansur 33-4-D sidetrack application
Attachments: Statewide UNPLANNED Sidetrack Approval Reporting_11-6-2013.pdf

Arvid,

Consider this email your approval to proceed with the sidetrack, and coordinate submission of the Form 2 and Form 5 with Bill Yokley (Permitting, Denver office). Form requirements are summarized on the attached guidance document.

This approval to proceed is contingent upon the assumption that the BHL and wellbore path remain at a legal location for completion (COGCC permitting staff will evaluate prior to formal approval of the forthcoming Application for Permit to Drill a Sidetrack Wellbore, Form 2). If the BHL or the productive portion of the sidetrack wellbore extends into locations that are not legal, then Fram may have to plug back portion(s) of the well that are not legal or obtain waivers from offset mineral interests.

Bill,

I added the following RemindmE to the well file: "Dave Andrews provided verbal approval for a request to sidetrack on 6/11/2014. See scanned email correspondence for details."

Thanks,

Dave

David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Region



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On Wed, Jun 11, 2014 at 12:06 AM, Arvid Mosnes <arvid.mosnes@framamericas.com> wrote:

Dave, thanks for taking my call at such late hours and for handling this application first thing in the morning.

Fram Operating on June 11 TD'ed Mansur 33-4-D, API # 05-077-10217 @3,445' in Dakota Sands using Craigs Energy Rig #7 drilling with air/mist. Max deviation 13 degrees.

No water or hydrocarbons were encountered at any depth drilling with air and mist.

Below is application for approval to sidetrack Mansur 33-4-D as per COGCC "Unplanned Sidetrack While Drilling" process;

1. Sidetrack necessary due to no oil show and purpose for sidetrack is to drill for secondary target.
2. Current well MD; 3,445'
3. 9 5/8" 36#, J-55, STC set at 486' and cemented with 3 bbl cement to surface.
4. No fish in hole.
5. Bottom plug from TD @ 3,445' to 2,745' 150sxs VersaCem with 0% excess, 12.8 ppg, 1.96 yield. This will bring top of plug 630' above Dakota Sand @ 3,375'.
Kick-off plug will be set from 1,700' to 1,000'. 17.0 ppg neat, 0.99 yield, 0% excess, 52 bbl / 295 sxs.
6. Bottom plug; Versacem, 12.8 ppg, yield; 1.96
Kick-off plug; G-Neat, 17.0 pps, yield 0.99
7. Kick off @ 950', - currently being verified by directional company.
8. Same objective; Dakota Sand
9. BHL Target; 38.966270 / -108.236194, TVD; 3,488'.

Dave Cook will follow up with filing necessary forms as required by COGCC.

Sincerely,

Arvid Mosnes

VP Operations

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