

Lynn Cass

From: Lynn Cass
Sent: Thursday, March 23, 2017 11:11 AM
To: Lynn Cass
Subject: FW: API# 05-045-23333-00 (TR 334-27-597 well)

David,

Conductor Casing - Hole size 26", Setting depth 60' MD, 18" .250 API 5L X42 PSL1 ERW PEB DRLS BARE, 47 ppf, cement to surface w/ 100 sks.

Surface casing - Hole size 14 3/4", Setting depth 2799' MD, 9 5/8", J-55, 36 ppf, cement to surface, 1000 sks 12.3 ppg Lead, 345 sks 12.8 Tail.

No fish in the hole

No sidetrack plug

The BHL will remain the same.

I will submit a form 2 today.

Thanks for your assistance with this matter. Have a great day.

Regards,

L. Cass

TEP, Rocky Mountain LLC

Drilling Superintendent

Exploration and Production

Office - 970-263-2716

Mob - 970-755-0083



From: Andrews - DNR, David [<mailto:david.andrews@state.co.us>]
Sent: Wednesday, March 22, 2017 12:26 PM
To: Lynn Cass <LCass@terraep.com>
Cc: Brandon Hilts <BHilts@terraep.com>
Subject: Re: API# 05-045-23333-00 (TR 334-27-597 well)

Lynn,

There were no files attached to your email. Please review the attached file named Statewide UNPLANNED Sidetrack Approval Reporting_10-7-2015. You covered most items in your email, except 1.b.iii. Casing set - size(s) and measured depth(s). I assume that there are no fish, no sidetrack plugs, and the proposed objective formation is the same. Please confirm, and let me know if the planned BHL is the same.

A new Form 2, Application for Permit to Sidetrack is required, as indicated in the guidance, but this is your verbal approval to proceed, pending your reply with the actual casing configuration in the hole (describe current conductor and surface casing details) and other information requested above.

Thanks,

Dave

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



COLORADO
Oil & Gas Conservation
Commission
Department of Natural Resources

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On Wed, Mar 22, 2017 at 11:56 AM, Lynn Cass <LCass@terraep.com> wrote:

David,

Hope you are doing well this morning. We encountered some problems last night while drilling the TR 334-21-597 well. Hole began unraveling on us and were having some mud property issues with some mud losses with tight hole. We pulled out to do a wiper trip and ended up POH to surface and picked up a fresh bit/motor and went back in hole and had to begin reaming at 2900' with some significant tight hole. At 4700' reaming became worse from 4700' down to 5400'. We circulated at 5400' and ran a cleanup cycle, then continued to wash to down to 5800'. Hole was acting funny so we took a couple of survey shots to verify what was happening as we suspected that we might be sidetracking. After we checked surveys it was apparent that we were out from our original well bore. At that time we tripped back out to 4700'. We then ran another check shot and during running back in we tagged at 4795'. Surveys showed we created a second wellbore and we were seeing some separation. We then spent a good part of the night trying to get back into original wellbore. Never could get any indicators to verify that this was going to be possible so we continued drilling and running check shots every 100'. We sidetracked the well beginning at 4800'. Very unconsolidated formation and we sidetracked from the high side of wellbore which is very uncommon. Probably couldn't do that again if we wanted to.

At that time we elected to drill ahead.

TD of old well bore is 8788'.

Current TD of new well bore 6964' and still drilling and plan is to TD at 9902' +/- and cement casing as originally planned with cement top to 200 ft above upper Wasatch formation.

Side-Track point appears to be around 4800' when taking drilling parameters into consideration. First survey at bit depth 4800' (survey depth 4729') shows just 0.11° separation from original well in the vertical plane (inclination), and 0.63° in the horizontal plane (azimuth).

PDF's of views and survey sheets are attached providing an overview of our separation from original well bore

Please call if you have any questions or would like to discuss.

Regards,

L. Cass

TEP, Rocky Mountain LLC

Drilling Superintendent

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