

Ally Ota

From: Diana Burn - DNR <diana.burn@state.co.us>
Sent: Friday, January 25, 2019 8:23 AM
To: Brian T. Murray; Steve Jenkins - DNR; Penny Garrison - DNR; Stephen Schwarz - DNR
Cc: Ally Ota; Venessa Chase; Jason Miller; John Sinesi; Trisha L. Williams; Mike W. Hamilton; David Lillo; Steve W. Trippett
Subject: [EXTERNAL] :RE: Challenger 1N API 05-123-45890-0000 Sidetrack request

Please proceed as proposed and let Stephen know the Doc# once the APD is in upload.

Thanks,
Diana

From: Brian T. Murray [mailto:Brian.Murray@pdce.com]
Sent: Friday, January 25, 2019 7:28 AM
To: Diana Burn - DNR; steve.jenkins@state.co.us; Penny Garrison - DNR
Cc: Ally Ota; Venessa Chase; Jason Miller; John Sinesi; Trisha L. Williams; Mike W. Hamilton; David Lillo; Steve W. Trippett
Subject: Challenger 1N API 05-123-45890-0000 Sidetrack request

Good morning Diana,

As per my voicemail from last night on your cell phone, we will be sidetracking the Challenger 1N (API 05-123-45890). We drilled to 14,201' (TD), circulated and then attempted to trip out. We got hung up at 13,948' and lost circulation. We worked it for a while and eventually it came free. Unfortunately once we get back to surface we saw we had left the agitator, BHA, bit, and 115 joints of drill pipe in the hole. Our plan is to sidetrack and drill a new lateral in the Niobrara B (same as original Challenger 1N).

- a. Well name and API - **Challenger 1N API 05-123-45890-0000**
- b. Explanation of situation and why you need to sidetrack – **Got hung up at 13,948'. Eventually came free but left agitator, BHA, bit, and 115 joints of drill pipe**
- c. Total measured depth reached (also have TVD) **14,201' MD/ 6,815' TVD'**
- d. Casing sizes set and measured depth **9-5/8" @ 1629' MD/ 1629' TVD**
- e. Description of fish-including top and bottom. **Agitator, BHA, bit and 115 joints of drill pipe**
- f. Type of cement you will be using including weight, yield, and sacks. **No cement, open hole sidetrack**
- g. Measured depth and TVD of sidetrack point **9,332' MD/ 6,833' TVD**
- h. Proposed target formation of sidetrack hole if different than permitted. **Same as permit.**
- i. BHL of sidetrack hole. **See table below:**

MD (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)
14,204	90.08	268.69	6,815	1,211	7,317

j. Wellbore diagram: Coming soon once we execute our sidetrack plan

Thank you and please let me know if you have any questions.

👤 Brian Murray, P.E. | Well Execution Manager | PDC Energy | O: 303-318-6184 | C: 303-601-2755 |
Brian.Murray@pdce.com

This e-mail message and included attachments may contain information that is proprietary, privileged, and/or confidential and is intended exclusively for the person(s) to whom it is addressed. Any use, copying, retention, and/or disclosures by any person other than the intended recipient or their designee is strictly prohibited. If you are not the intended recipient or their designee, please notify the sender immediately by telephone to (303) 860-5800 and then permanently delete all copies.