From:	Diana Burn - DNR
To:	Bodner, Anthony; Eric Jacobson - DNR; diane.mccoy@state.co.us; Smith, Ryan; Crowder, David; Newville, Toni; McClain, Crystal
Cc:	Michael Rigby - DNR; Penny Garrison - DNR
Subject:	[EXTERNAL] RE: Cleland 15-3HZ Sidetrack Approval
Date:	Monday, December 09, 2019 9:01:19 AM

Please proceed as proposed and provide the uploaded APD Doc# to Mike Rigby.

Thanks,
Diana

From: Bodner, Anthony <Anthony.Bodner@anadarko.com>
Sent: Sunday, December 08, 2019 5:42 PM
To: diane.mccoy@state.co.us; Smith, Ryan <Ryan.Smith2@anadarko.com>; Crowder, David <David.Crowder@anadarko.com>; Newville, Toni <Toni.Newville@anadarko.com>; McClain, Crystal <Crystal.McClain@anadarko.com>
Subject: Cleland 15-3HZ Sidetrack Approval

Good evening Diane,

Per your approval, we will proceed forward with the proposed open hole sidetrack for the Cleland 15-3HZ. Please see below, and contact me if you have any questions.

Well Name and API

- Cleland 15-3HZ
- 05-123-50490

Explanation of situation and why we need to sidetrack

- Formation: Nio C
- Lateral Category: Two Section Lateral
- Excessive dogleg severity in the lateral will hinder drilling operations from reaching TD, and prevent pumpdown of equipment during completion operations. After sidetracking, the production hole will be drilling in the same target formation and to the same bottom hole location (as the permitted directional plan).
- The plan forward is to perform an open hole side track to minimize DLS in the lateral section.

Total Measured Depth Reached

- 17,514’ MD
- 7,843’ TVD

Casing Sizes set and MD

- 16” conductor casing set a 100 ft.
- 9.625” surface casing set at 1,915 ft.

Measured Depth and TVD of open hole sidetrack point

- 17,108’ MD
- 7,846’ TVD

Proposed target formation of sidetrack hole if different than permitted

- Same well plan as permit

BHL of sidetrack hole

- Same well plan as permit

Wellbore Diagram

- See attached

Please contact me if you have any questions about our intended plans.

Thank you,

Anthony Bodner

DJ Drilling Engineering – Rockies Well Construction
Engineer I
Office: 720 929 3036
Cell: 406 799 1738