

Light, Cheryl

From: Diana Burn - DNR <diana.burn@state.co.us>
Sent: Thursday, April 12, 2018 9:33 AM
To: Haynes, Zach
Cc: Honas, Kris; Light, Cheryl; Smith, Ryan; Ristich, Carly; Lee, Michael; Duncan, Alec; Cheney, Alex; Penny Garrison - DNR; Diane McCoy - DNR
Subject: RE: Verbal Approval for Quarter Circle 24-1HZ Sidetrack

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Please proceed as proposed – please send new APD document # to Penny Garrison once it is submitted.

Thanks,
Diana

From: Haynes, Zach [mailto:Zach.Haynes@anadarko.com]
Sent: Thursday, April 12, 2018 9:11 AM
To: 'Diana Burn - DNR'; 'Stuart Ellsworth - DNR'
Cc: Honas, Kris; 'Barbara Westerdale - DNR'; Light, Cheryl; Smith, Ryan; Ristich, Carly; Lee, Michael; Duncan, Alec; Cheney, Alex
Subject: Verbal Approval for Quarter Circle 24-1HZ Sidetrack

Diana,

Please see the information below for verbal approval of our plan for an open hole sidetrack.

Well name and API

- Quarter Circle 24-1HZ
- 05-123-46264

Explanation of situation and why we need to sidetrack

- This well is a Nio C two section lateral. We reached a MD of 11,943' and had a motor failure. We tripped out of the hole to pick up a new motor and on the way back into the hole we encountered hole troubles at ~9,700'. The hole appears to be collapsing in at this depth. We attempted to clean up the hole without success, and need to sidetrack away from the part of formation that is giving us trouble.

Total Measured Depth Reached (Using KB of 20')

- 11,943' MD
- 7,386' TVD

Casing Sizes set and MD

- 16" conductor casing set at 80 ft. (using GL)
- 9.625" surface casing set at 1,850' MD (Using GL)

Type of cement (if necessary)

- We will first try an openhole sidetrack at 7,550 ft MD (Using KB). Only if this does not work, will we pump a cement plug and sidetrack off of plug.
- Contingency plug length = ~600'
- Weight: 17.0 ppg
- Yield: ~0.95 ft³/sk
- Sacks: ~249

Measured Depth and TVD of open hole sidetrack point (Using KB of 20')

- 7,550 ft. MD
- 7,279 ft. 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

Thank you,

Zach Haynes

Rockies Drilling Engineer II

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