

Light, Cheryl

From: Light, Cheryl
Sent: Thursday, April 26, 2018 8:41 AM
To: Light, Cheryl
Subject: FW: Verbal Approval for Quarter Circle 24-1HZ Sidetrack

From: Diana Burn - DNR <diana.burn@state.co.us>
Sent: Wednesday, April 25, 2018 5:13 PM
To: Haynes, Zach <Zach.Haynes@anadarko.com>; Sabrina Trask - DNR <sabrina.trask@state.co.us>; Diane McCoy - DNR <diane.mccoy@state.co.us>
Cc: Honas, Kris <Kris.Honas@anadarko.com>; Light, Cheryl <Cheryl.Light@anadarko.com>; Smith, Ryan <Ryan.Smith2@anadarko.com>; Ristich, Carly <Carly.Ristich@anadarko.com>; Lee, Michael <Michael.Lee@anadarko.com>; Duncan, Alec <Alec.Duncan@anadarko.com>; Cheney, Alex <Alex.Cheney@anadarko.com>; Stiasny, Matt <Matt.Stiasny@anadarko.com>; Salamander, Daniel <Daniel.Salamander@anadarko.com>
Subject: RE: Verbal Approval for Quarter Circle 24-1HZ Sidetrack

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We're fine with the intention to sidetrack without the exact sidetrack point and the fact that a cement plug will be used if needed. (can send email without being exact)

Please proceed as proposed – openhole intended, may need to plug back.

Barbara Westerdale is no longer the permitting contact – Sabrina Trask is and Stuart does not need to be copied (unless he is the one that ended up with the phone call).

Thanks,
Diana

From: Haynes, Zach [mailto:Zach.Haynes@anadarko.com]
Sent: Wednesday, April 25, 2018 4:06 PM
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; Stiasny, Matt; Salamander, Daniel
Subject: Verbal Approval for Quarter Circle 24-1HZ Sidetrack

Diana,

We are currently performing check-shot surveys at ~9457' MD to determine the exact sidetrack point. I have left that part blank highlighted in yellow below. Everything else is correct. I just wanted to keep you in the loop. We had some downtime today that has delayed the process of getting you all of this information. I was waiting to have all of the information before sending the email, but at this point I wanted to give you the most communication I could. I will update the information highlighted below and send you the wellbore diagram as soon as I possibly can.

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

Well name and API

- Quarter Circle 24-2HZ
- 05-123-46266

Explanation of situation and why we need to sidetrack

- This well is a Codell two section lateral. We reached a MD of 12,849'. We were drilling a Codell well and had some high doglegs and increased wellbore geometry due to a fault in the well. We are sidetracking around the high doglegs to stay in zone and finish drilling the well to TD.
- Total Measured Depth Reached (Using KB of 20')
- 12,849' MD
- 7,529' TVD

Casing Sizes set and MD

- 16" conductor casing set at 80 ft. (using GL)
- 9.625" surface casing set at 1,872' MD (Using GL)

Type of cement (if necessary)

- We will first try an openhole sidetrack at 9,457'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')

- 9457' MD
- 7,604' 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

Anadarko Petroleum Corporation

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Zach.Haynes@anadarko.com

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