

## Light, Cheryl

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**From:** Diana Burn - DNR <diana.burn@state.co.us>  
**Sent:** Monday, August 07, 2017 6:07 AM  
**To:** Crowder, David  
**Cc:** Bennett, Nathan; Honas, Kris; Giles, Eric; Light, Cheryl; Stephen Wolfe - DNR; Penny Garrison - DNR; Barbara Westerdale - DNR  
**Subject:** RE: RW 4N-5HZ - Sidetrack Approval

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Please proceed as proposed.

Thanks,  
Diana

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**From:** Crowder, David [mailto:[David.Crowder@anadarko.com](mailto:David.Crowder@anadarko.com)]  
**Sent:** Sunday, August 06, 2017 12:54 PM  
**To:** Diana Burn - DNR  
**Cc:** Bennett, Nathan; Honas, Kris; Giles, Eric; Light, Cheryl  
**Subject:** RW 4N-5HZ - Sidetrack Approval

Good Afternoon, Diana –

Please see below, and contact me if you have any questions.

### Well name and API

- RW 4N-5HZ
- 05-123-44612

### Explanation of situation and why we need to sidetrack

- Formation: Nio B
- Lateral Category: Single Section Lateral
- After landing the curve and drilling approximately 1750 ft of lateral (9268' MD), wellbore instability issues were encountered as indicated by torque spikes and difficulty getting back to bottom. A back reaming operation was subsequently performed all the way back to KOP in an attempt to clean up the wellbore. On the way back to bottom, a survey revealed that the original wellbore had been unintentionally sidetracked and we were too deep to get back to the planned landing point. The decision was made to set a kick off plug and sidetrack approximately 300' above the original KOP.

### Total Measured Depth Reached

- 9,268' MD
- 7,019 TVD

### Casing Sizes set and MD

- 16" conductor casing set at 97 ft.
- 9.625" surface casing set at 1,860 MD

**Type of cement (if necessary)**

- 17 ppg kick off plug will extend from 5500' to 6300' MD (GRANITECEM system by Halliburton)
- 15.8 ppg isolation plug will extend from 6300' to 7100' MD (PLUGCEM system by Halliburton)
- Plug slurries and placement will be provided by Halliburton (proposal attached)

**Measured Depth and TVD of open hole sidetrack point**

- 6,118 ft. MD
- 5,919 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,

David Crowder

Drilling Engineer, DJ Basin Well Construction

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