

## Ty Entenmann

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**From:** Diana Burn - DNR <diana.burn@state.co.us>  
**Sent:** Thursday, February 9, 2017 9:31 AM  
**To:** Ty Entenmann; Diane McCoy - DNR; Penny Garrison - DNR; Barbara Westerdale - DNR  
**Subject:** RE: Sidetrack - Kiteley 9

Please proceed as proposed.

Thanks,  
Diana

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**From:** Ty Entenmann [mailto:[tyentenmann@extractionog.com](mailto:tyentenmann@extractionog.com)]  
**Sent:** Thursday, February 09, 2017 9:02 AM  
**To:** Diana Burn - DNR  
**Subject:** Sidetrack - Kiteley 9

Diana,

We are drilling the Kiteley 9. We landed in zone and had been anticipating a downward dip of about 87.5-88 degree (70-90'TVD drop), however upon drilling we have been in the fort Hays for 1500' of the first 2000' of this lateral. Dip is closer to 86 degrees (150' TVD drop), being how this is the first well on the pad we would like to sidetrack and make another attempt at this knowing a little more about the dip.

With your permission, we would like to sidetrack at 9,044' and move our targets down to adjust for increased downward dip.

API # - 05-123-43922-00

Total MD Drilled – 11,301'

Surface Casing – 9-5/8" 36# set at 1550'

Proposed Fish – None

Open hole sidetrack plan: Side track at 9,044' and change targets to stay in zone

Depth of Sidetrack- 9,044' MD

Objective formation of sidetrack – Codell (same as APD)

Proposed BHL – Sec 21 – TWP 3N 68W 57S FSL 460 FEL (same as approved)

Thanks and please call with any questions,



**Ty Entenmann**

*Drilling Engineer*

Extraction Oil & Gas

370 17<sup>th</sup> St, Suite 5300

Denver, CO 80202

Direct: 720.557.8326

[www.ExtractionOG.com](http://www.ExtractionOG.com)

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