

**Scott Webb**

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**From:** Chad Anton  
**Sent:** Monday, November 24, 2014 8:20 AM  
**To:** Diana Burn - DNR  
**Cc:** Dirk Sutphin - DNR; Barbara Westerdale - DNR; Scott Webb; Michael Vendegnia  
**Subject:** RE: Sidetrack Request for the Cottonwood 08E-0504

Thank you.

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**From:** Diana Burn - DNR [<mailto:diana.burn@state.co.us>]  
**Sent:** Monday, November 24, 2014 7:38 AM  
**To:** Chad Anton  
**Cc:** Dirk Sutphin - DNR; Barbara Westerdale - DNR  
**Subject:** RE: Sidetrack Request for the Cottonwood 08E-0504

Please proceed as proposed.

Thanks,  
Diana

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**From:** Chad Anton [<mailto:chad.anton@whiting.com>]  
**Sent:** Sunday, November 23, 2014 9:56 PM  
**To:** [diana.burn@state.co.us](mailto:diana.burn@state.co.us)  
**Subject:** Sidetrack Request for the Cottonwood 08E-0504

**Cottonwood 08E-0504 – API: 05-123-4040800-00**

**PROPOSED OR COMPLETED OPERATIONS:**

**EXPLAIN THE SITUATION THAT HAS RESULTED IN THE NEED TO SIDETRACK:**

While drilling the lateral we crossed a faulted section which resulted in drilling into the Sharon Springs. We tripped out of the hole for an pressure spike. While tripping in the hole, we had difficulty in getting back to bottom and even got stuck. With continued sloughing and risk of getting stuck, we need to sidetrack the lateral.

**TOTAL DEPTH REACHED:**

11,354' (MD) 5,516' (TVD)

**CASING:**

**SURFACE CASING:**

**SIZE:** 9.625" 36PPF

**DEPTH:** 1,560 MD 1,560' TVD

**PRODUCTION CASING:**

**SIZE:** 7.0" 29 PPF P110HC LTC

**DEPTH:** 5,880' MD 5,516' TVD

**Fish In Hole:**

No Fish

**SIDETRACK PROCEDURE AND PLUG BACK DEPTHS:**

No plug will be set in horizontal bore; Plan to trip in with our directional assembly and time drill to go on the low side of the current wellbore

**SIDETRACK KICK OFF POINT:**

9,844' (MD) 5,529' (TVD)

**Proposed Formation:**

Niobrara

**BHL TARGET FOR SIDETRACK HOLE:**

(SAME TARGET) 100' FNL AND 1,205' FWL S5-T9N-R57W

**Verbal Approval to Sidetrack:**

Received

**Chad Anton**

Drilling Engineer V

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*and its wholly owned subsidiary*

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