



STATE OF  
COLORADO

Westerdale - DNR, Barbara <barbara.westerdale@state.co.us>

---

## RE: Razor\_27I-2216B (API: 05-123-37974)

1 message

Diana Burn - DNR <diana.burn@state.co.us>

Wed, Oct 23, 2013 at 4:01 PM

To: Benjamin Betts <Benjamin.Betts@whiting.com>

Cc: Scott Webb <ScottW@whiting.com>, Cole Orley <Cole.Orley@whiting.com>, Dirk Sutphin <dirk.sutphin@state.co.us>, Barbara Westerdale - DNR <barbara.westerdale@state.co.us>, Jane Stanczyk - DNR <jane.stanczyk@state.co.us>

Please proceed as proposed.

Thanks,

Diana

---

**From:** Benjamin Betts [mailto:[Benjamin.Betts@whiting.com](mailto:Benjamin.Betts@whiting.com)]

**Sent:** Wednesday, October 23, 2013 1:14 PM

**To:** 'Diana Burn - DNR'

**Cc:** Scott Webb; Cole Orley

**Subject:** RE: Razor\_27I-2216B (API: 05-123-37974)

### RAZOR\_27I-2216B – API: 05-123-37974

-

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

- DATA COLLECTED BY MWD-GAMMA TOOL AND THE MUD LOG INDICATED THAT WE HAD DRILLED OUT OF ZONE AT 12,000' MD TO 12,434' MD (DUE TO FAULTS) THIS PUT MORE THAN 20% OF THE LATERAL LENGTH OUT OF ZONE (ALTHOUGH STILL IN THE NIOBRARA). THE INTENT IS TO OPEN HOLE SIDETRACK AT 11,300' MD AND COMPLETE LATERAL TO THE ORIGINAL BHL.

- **TOTAL DEPTH REACHED:**

- 12,434' (MD)

- **CASING:**

- SURFACE CASING:
  - SIZE: 9.625" 36PPF J-55 LTC
  - DEPTH: 1,621'
- INTERMEDIATE CASING:
  - SIZE: 7.000" 29PPF L-80 LTC
  - DEPTH: 6090' (MD)
- DESCRIPTION OF FISH IN THE HOLE:
  - NO FISH TO REPORT
- PLUG BACK DEPTHS:
  - NO PLUGS TO REPORT
- SIDETRACK KICK OFF POINT:
  - 11,300' (MD)
- BHL TARGET FOR SIDETRACK HOLE:
  - (SAME TARGET) 100' FNL AND 165' FEL S22-T10N-R58W
- VERBAL APPROVAL TO SIDETRACK:
  - DIANA BURN ON 10/23/13

Thanks again,



**Benjamin Betts, PE**

Drilling Engineer

**Whiting Petroleum Corporation**

*and its wholly owned subsidiary*

**Whiting Oil and Gas Corporation**

1700 Broadway, Suite 2300

Denver, CO 80290

Direct (303) 390-4946

Cell (303) 319-8074

benjamin.betts@whiting.com

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

The information contained in this message may be privileged and confidential and protected from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to this message and deleting it from your computer.

---

**From:** Diana Burn - DNR [<mailto:diana.burn@state.co.us>]

**Sent:** Wednesday, October 23, 2013 1:07 PM

**To:** Benjamin Betts

**Subject:** RE: Razor\_27I-2216B (API: 05-123-37974)

I'd leave off the highlighted stuff and send it back to me please, copying all that need to be copied for my reply. I would add under the explanation that the intent is to openhole sidetrack.

Thanks,

Diana

---

**From:** Benjamin Betts [mailto:[Benjamin.Betts@whiting.com](mailto:Benjamin.Betts@whiting.com)]

**Sent:** Wednesday, October 23, 2013 12:35 PM

**To:** 'Diana Burn - DNR'

**Subject:** RE: Razor\_27I-2216B (API: 05-123-37974)

No worries. Is below what you are requesting?

**FORM 4 – PAGE 2 – (RAZOR 27I-2216B – API: 05-123-37974)**

**5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS:**

- **EXPLAIN THE SITUATION THAT HAS RESULTED IN THE NEED TO SIDETRACK:**
- DATA COLLECTED BY MWD-GAMMA TOOL AND THE MUD LOG INDICATED THAT WE HAD DRILLED OUT OF ZONE AT 12,000' MD TO 12,434' MD (DUE TO FAULTS) THIS PUT MORE THAN 20% OF THE LATERAL LENGTH OUT OF ZONE (ALTHOUGH STILL IN THE NIOBRARA).
- **TOTAL DEPTH REACHED:**
- 12,434' (MD)

- **CASING:**
- **SURFACE CASING:**
- **SIZE:** 9.625" 36PPF J-55 LTC
- **DEPTH:** 1,621'
- **INTERMEDIATE CASING:**
- **SIZE:** 7.000" 29PPF L-80 LTC
- **DEPTH:** 6090' (MD)
- **DESCRIPTION OF FISH IN THE HOLE:**
- NO FISH TO REPORT
- **PLUG BACK DEPTHS:**
- NO PLUGS TO REPORT
- **SIDETRACK KICK OFF POINT:**
- 11,300' (MD)
- **BHL TARGET FOR SIDETRACK HOLE:**
- (SAME TARGET) 100' FNL AND 165' FEL S22-T10N-R58W
- **VERBAL APPROVAL TO SIDETRACK:**
- DIANA BURN ON 10/23/13
- **ATTACHMENTS:**
- WELLBORE DIAGRAM (1-COPY)
- CEMENT JOB SUMMARY FOR SURFACE CEMENT (1-COPY)
- CEMENT JOB SUMMARY FOR INTERMEDIATE CEMENT (1-COPY)

Thanks,

**Benjamin Betts, PE**

Drilling Engineer

**Whiting Petroleum Corporation***and its wholly owned subsidiary***Whiting Oil and Gas Corporation**

· 1700 Broadway, Suite 2300

Denver, CO 80290

Direct (303) 390-4946

Cell (303) 319-8074

benjamin.betts@whiting.com

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

The information contained in this message may be privileged and confidential and protected from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to this message and deleting it from your computer.

**From:** Diana Burn - DNR [<mailto:diana.burn@state.co.us>]**Sent:** Wednesday, October 23, 2013 12:29 PM**To:** Benjamin Betts**Subject:** RE: Razor\_27I-2216B (API: 05-123-37974)

Hate to be a pain – please couch them in the actual email – it becomes part of the permit.

Thanks,

Diana

**From:** Benjamin Betts [<mailto:Benjamin.Betts@whiting.com>]**Sent:** Wednesday, October 23, 2013 12:28 PM**To:** Burn, Diana ([Diana.Burn@state.co.us](mailto:Diana.Burn@state.co.us))**Cc:** Cole Orley; Scott Webb**Subject:** Razor\_27I-2216B (API: 05-123-37974)

Diana,

Attached are the details for the sidetrack on the Razor\_27I-2216B. We will get the remaining forms into you ASAP. If you need anything else please let me know.

Thanks,

**Benjamin Betts, PE**  
Drilling Engineer  
**Whiting Petroleum Corporation**  
*and its wholly owned subsidiary*  
**Whiting Oil and Gas Corporation**  
1700 Broadway, Suite 2300  
Denver, CO 80290  
Direct (303) 390-4946  
Cell (303) 319-8074  
benjamin.betts@whiting.com  
[www.whiting.com](http://www.whiting.com)

The information contained in this message may be privileged and confidential and protected from disclosure. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to this message and deleting it from your computer.