

## Hirtler, Christina

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**From:** Petty, Benjamin A  
**Sent:** Saturday, June 29, 2024 6:50 PM  
**To:** diane.mccoy@state.co.us  
**Cc:** Hirtler, Christina; Newville, Toni; Farrell, Ryan R; Crowder, David  
**Subject:** Occidental Petroleum - Unplanned Sidetrack: Rademacher South 30-16HZ  
**Attachments:** UNPLANNED SIDETRACK - RADEMACHER SOUTH 30-16HZ\_WBD.pdf

Good evening, Diane,

Below is information requesting to sidetrack the Rademacher South 30-16HZ. If you have any questions or concerns, please let me know. If everything looks good, we request your approval to execute the sidetrack.

**Well name and API #:**

- **Rademacher South 30-16HZ**
- **05-123-52569**

**Explanation of the situation that has resulted in the need to sidetrack**

- After tripping out of the hole on the Rademacher South 30-16HZ at 8007' MD, attempts were made to get back to bottom to drill. The BHA could not get to bottom, and when attempting to wash through, pressures were higher than normal. Abnormally large sized cuttings were circulated to surface, indicating hole instability. Hole instability seems to be driven from a combination of Sharon Springs exposure and a fault present through the well's curve. Requesting permission to sidetrack and build a curve that lands away from the fault and reducing the amount of exposure to the Sharon Springs.

**Total measured depth reached in the wellbore being plugged back**

- 8007' MD

**Casing set – size(s) and measured depth(s)**

- 8.625" surface casing set at 1857' MD

**Description of fish in the hole (if any) – including top and bottom measured depths**

- No fish left in the hole.

**Description of proposed plugs: setting measured depths, heights, and cement volumes**

- Bottom of 15.8 ppg plug: 6575' MD
- Top of 15.8 ppg plug: 5175' MD
- 15.8 ppg plug total height: 1400'
- 15.8 ppg plug total volume: 84.3 bbls
  
- Bottom of 17 ppg plug: 5175' MD
- Top of 17 ppg plug: 4475' MD
- 17 ppg plug total height: 700'
- 17 ppg plug total volume: 42.2 bbls

**Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)**

- Bottom plug: Class G 15.8 ppg cement / 1.53 cf/sk

- Top plug: Class G 17 ppg cement / 1.00 cf/sk

**Measured depth of proposed sidetrack kick-off point**

- 4516' MD

**Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned**

- Same as original, permitted wellbore – Niobrara B

**BHL target for sidetrack hole – new or same as the wellbore being abandoned**

- Same as original, permitted wellbore

Thank you for your time and consideration,

**Ben Petty**

Staff Drilling Engineer – Rockies

Occidental Oil and Gas Corporation

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