

**Roberts 1**  
 API 05-075-06999  
 NWNW SEC. 30 T11N R53W 6PM

**Existing Completion**

**Elev 4,302'**

**Proposed P&A**

**TOC**

Shoe at 141'  
 8 5/8" Surface casing  
 10 3/4" hole size  
 90 sacks cement

**Note:** If perms at 250' will take fluid but do not circulate or circulation is lost, pump a minimum of 50 sx and displace to 91', 50' above the surface shoe, WOC and tag at 91' or shallower. Notify COGCC Area Engineer of insufficient cement prior to pumping additional plugs.

**Formation Tops (from COGCC):**

Formation	Log Top
NIOBRARA	4252
FORT HAYS	4556
CODELL	4606
CARLILE	4612
GREENHORN	4790
GRANEROS	4842
BENTONITE	4970
D SAND	5065
J SAND	5176
SKULL CREEK	5264

Offset Static Water Level Depths (From SEO)	Permit Number
313'	45215
150'	40935
80'	25935

\*Offset groundwater depths include all depths reported for groundwater wells within a 1-mile radius and are assumed in feet below ground surface. Data is from the Colorado State Engineer's Office's database

Est. top of cement ~4499'  
 (Entrada calc)

Completed interval: 5,060' – 5,066'

TD = 5,130' MD  
 4 1/2" Production casing  
 7 7/8" hole size  
 125 sacks of cement

Perfs at 250' – cement to surface inside casing and annulus  
 20 sacks casing plug, squeeze 50 sacks annulus

Perfs at 750'  
 10 sacks casing plug, squeeze 40 sacks annulus

Perfs at 1,450' - Isolates Pierre Shale  
 10 sacks casing plug, squeeze 40 sacks annulus

Perfs at 4,150'  
 10 sacks casing plug, squeeze 40 sacks annulus

Top of Niobrara 4,252'

Bridge plug at 5,010' + 25' cement (3 sacks)

NOT DRAWN TO SCALE

Measured depths displayed, TVD unknown

Drafted By: BFB  
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**Roberts 1**  
**Proposed P&A Wellbore Diagram**  
**Western Operating Company**

 Proposed Cement  
 Existing Cement



Figure 1