

PLUG AND ABANDONMENT PROCEDURE

Chancellor Federal 20-2

April 13, 2020

Proposed P&A
API #05-103-08138
NE, Section 20, T2S, R101W, 6PM
Rio Blanco County, CO

Note: This procedure may be revised based on COGCC Conditions of Approval. All cement volumes use 10% per 1000' of depth, both inside and outside per Colorado Regulations. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class G, mixed at 15.8 ppg with a 1.15 cf/sx yield. Water spacers shall be used both ahead of and behind balanced plug cement slurry to minimize cement contamination by any wellbore fluids that are incompatible with the cement slurry.

1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all COGCC, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes ☐ , No ☒ , Unknown ☐ .
Tubing: Yes ☒ , No ☐ , Unknown ☐ , Size 2-3/8" , Length 2144' .
Packer: Yes ☐ , No ☒ , Unknown ☐ , Type .

Note: Will need to PU tubing workstring.

4. **Plug #1 (Mancos Perforations and top, (2146' – 2046')):** R/T 4.5" gauge ring or mill to 2146' or as deep as possible. RIH and set CR @ 2146'. Pressure test tubing to 1000#. Attempt to pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as necessary. Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to isolate the Mancos interval. TOH.
5. **Plug #2 (8 5/8" Surface casing shoe and Surface, 205' - Surface):** Perforate 4 squeeze holes at 205'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 75 sxs Class G cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
6. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations