

PLUG AND ABANDONMENT PROCEDURE

June 15, 2020

Dragon Trail UN 1163

Proposed P&A

1544' FNL and 753' FEL, Section 29, T2S, R102W

Rio Blanco, CO / API 05-103-10278

All cement volumes use 10% excess per 1000 foot of depth or 100% excess outside pipe and 50' excess inside pipe, whichever is greater. 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.

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 X, Unknown____.
Tubing: Yes X, No____, Unknown____, Size 2.375", Length 1471'.
Packer: Yes____, No____, Unknown____, Type_____
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **Plug #1 (Mancos perforations and interval, 1458' – 1358')**: Round trip 4.5" gauge ring or mill to 1458' or as deep as possible. RIH and set 4.5" CR at 1458'. 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 perforations. PUH
5. **Plug #2 (Surface casing shoe and Surface, 264' – 0')**: Perforate 3 squeeze holes @ 264'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 53 sxs Class G cement and pump down the 4.5" casing and circulate good cement out the 7" casing valve. Shut in well in 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