# PLUG AND ABANDONMENT PROCEDURE

January 11, 2021

**Southern Ute FC 32-11 #7-6**

Ignacio Blanco

1185' FSL, 2200' FWL, Section 7, T32N, R11W, La Plata County, Colorado

API 05-067-07475 / Long _____ / _____

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, and Corrosion Inhibitor 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__X_ , No ____, Unknown_____.
   Tubing: Yes __X__ , No _____, Unknown____ , Size ___2-7/8__,
   Packer: Yes____ , No __X___, Unknown_____, Type __ _____.

4. **Plug #1 (Fruitland Coal interval and top, 1032- 778'):** Round trip 5.5" gauge ring or mill to 1032' or as deep as possible. RIH and set 5.5" CR at 1032. Pressure test tubing to 1000#. *Attempt to pressure test casing to 500#. If casing does not test then spot or tag subsequent plugs as appropriate.* Mix and pump 36 sxs Class G cement and spot a balanced plug inside casing to isolate the FTC perforations and top. PUH.

5. **Plug #2 (Pictured Cliffs top, 1310' - 1210'):** Mix and pump 18 sxs Class G cement inside casing to isolate PC top. PUH.

6. **Plug #3 (8-5/8" Surface casing shoe and Surface, 332' - Surface)**: : Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 40 sxs cement and spot a balanced plug from 332' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing and annulus from the squeeze holes to surface. Shut in well and WOC.

7. 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