

PLUG AND ABANDONMENT PROCEDURE

November 22, 2022

Sutton #2

Ignacio Blanco

1400' FSL, 990' FWL, Section 33, T34N, R9W,

La Plata County, Colorado

API 05-067-05613

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 Type II/V, mixed at 15.0 ppg with a 1.29 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. Comply with regulatory and Operator safety regulations as applicable. 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. **Plug #1 (Mesaverde perforations and top, 5520' – 5200')**: RIH and set 4.5" CIBP/CR at 5520'. *Attempt to pressure test casing to 500#. If casing does not test then spot or tag subsequent plugs as appropriate.* Spot 26 sxs Type II/V cement above CR/CIBP from 5520' to isolate perforations and Mesaverde top. TOH and LD setting tool. TIH.
4. **Plug #2 (7-5/8" casing shoe, 4.5" liner top and Pictured Cliffs top; 3450' – 3045')**: Mix and pump 80 sxs Type II/V cement inside casing to isolate through the PC top. PUH.
5. **Plug #3 (Fruitland top; 2740' – 2640')**: Mix and pump 31 sxs Type II/V cement inside casing to isolate the Fruitland top. PUH.
6. **Plug #4 (Kirtland and Ojo Alamo tops; 2350' – 1959')**: Mix and pump 91 sxs Type II/V cement inside casing to isolate through the Ojo Alamo top. PUH.
7. **RU A-Plus Wireline Truck.** Run CBL from 1000' to surface. Note: CBL results may change surface plug.
8. **Plug #5 (10-3/4" Surface casing shoe and Surface, 305' - 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 63 sxs Type II/V cement and spot a balanced plug from 305' 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.

9. ND cementing valves and cut off wellhead. Test and record if gas is present. Fill annuli with cement as necessary. Wait 5 days to install P&A marker. Return to location. Test and record if gas is present. Confirm with Red Willow Engineer to 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.