



PIRTLAW PARTNERS LTD 32-09  
ROUTT COUNTY, COLORADO

API 05-107-06250

## PROPOSED PLUGGING PROCEDURE

### CEMENT SLURRY PROPERTIES

Slurry Yield (cu-ft/sk)  
Slurry Weight (ppg)  
Mixing Water Required (gal/sk)  
Thickening Time (hrs:min)  
Compressive Strength (psi-24hrs)

### PLUGGING SLURRY

1.15  
15.8  
4.99  
2:30  
4,000

### OPERATIONAL PROCEDURE

1. **Notify COGCC via electronic Form 42, 48 hours prior to MIRU.**
2. MIRUSU, Bleed pressure off of 5 1/2" casing and nipple up and test 7 5/8" x 11" spool and 11" BOP dressed with 2 3/8" pipe rams.
3. Check and record 9 5/8" x 10 3/4" and 5 1/2" x 9 5/8" annulus pressures.
4. **Notify COGCC and Tulsa Office if pressure exists.**
5. PU 2 3/8" tubing. TIH to CIBP @ 5,862'. Circulate hydrocarbons out of hole. Pressure test 5 1/2" casing and plug to 500 psi. **(Notify COGCC if casing does not test).** TOOH with tubing.
6. RU wireline truck & shoot 4 squeeze holes @ 5,855'. Open 5 1/2" x 9 5/8" annulus & circulate hydrocarbons out of hole. **(Notify COGCC if circulation is not established)**
7. TIH w/CICR on tubing & set at 5,805'. Squeeze with 50 sx cement. Sting out of CICR and check for flow up 5 1/5" x 9 5/8" annulus. **(Notify COGCC if pressure exists)** Spot 150' (17 sx) cement on top of CICR.
8. TOOH.
9. ND BOP, spool and tubing head. Install 5 1/2" pipe rams in BOP. Weld on 5 1/2" casing sub. NU and test 11" BOP.
10. Latch onto and pull up on 5 1/2" Casing to release and remove casing slips.
11. RU wireline truck & cut casing at 5,253'.
12. Pull and LD 5 1/2" casing. Change to 2 3/8" Pipe Rams
13. TIH with 2 3/8" tubing to 5,303' Spot 200' (62 sx) balanced plug across 5 1/2" casing top and 9 5/8" casing shoe from 5,103' - 5,303'. **WOC and tag plug to verify top of plug is at 5,153' or above. Pressure test 9 5/8" casing to 500 psi.**
14. Pull up to 4,732' and spot 100' (37 sx) balanced plug across DV tool from 4,632' - 4,732'.
15. Pull up to 1,273' and spot 200' (74 sx) balanced plug across 13 3/8" casing shoe from 1,073' - 1,273'.
16. Dig out & cut wellhead 4' BGL. Circulate cement (18 sx) to surface in annuls & 9 5/8" casing from 50' w/1" poly pipe. Weld on regulation dry hole plate w/legal ID. Backfill cellar & plugging pit.