



**CATHEDRAL FED 16-01 (P&A)**  
**SESE-S16-T2S-R104W**  
**RIO BLANCO, CO**

**Purpose: P&A**

**Date: 03/27/2023**

**AFE: PENDING**

**KBE:** 6078' (10')  
**GLE:** 6068'  
**PBTD:** 2526'  
**TD:** 2586'  
**CURRENT EOT: UNKNOWN**  
**TBG DETAIL: UNKNOWN**

**API NUMBER:** 05-103-07878  
**LEASE NUMBER:** C-15228

**PERFS: MANCOS (2226'-2442')**  
**ETOC: UNKNOWN**

| Tubular Type      | Grade | OD (in) | Wt/Len (lb/ft) | Set Depth (ft) | ID (in) | Drift (in) | Collapse (psi) | Burst (psi) | Capacities |                     |        |
|-------------------|-------|---------|----------------|----------------|---------|------------|----------------|-------------|------------|---------------------|--------|
|                   |       |         |                |                |         |            |                |             | Gal/ft     | ft <sup>3</sup> /ft | Bbl/ft |
| Surface Casing    | K-55  | 8.625   | 24             | 165            | 8.097   | 7.972      | 1370           | 2950        | -          | -                   | -      |
| Production Casing | N-80  | 4.500   | 10.5           | 2553           | 4.052   | 3.927      | 4010           | 4790        | 0.6699     | 0.0896              | 0.0159 |

| Tubular/Borehole    | Capacities |          |
|---------------------|------------|----------|
|                     | SX/ft.     | Cuft/ft. |
| 4.5" 10.5# J-55 csg | 0.0779     | 0.0896   |

| Annular Capacities        | SX/ft. | Cuft/ft. |
|---------------------------|--------|----------|
| 4.5" csg X 8.625" 24# csg | 0.2148 | 0.2471   |

**GEOLOGIC INFORMATION:**

| FORMATION | DEPTH TO TOP (ft) |
|-----------|-------------------|
| Mancos    | 520               |



## CATHEDRAL FED 16-01 PLUG & ABANDONMENT PROCEDURE

### **GENERAL:**

- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.15 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY(S) 48 HOURS BEFORE MOVING ON LOCATION.

### **PROCEDURE:**

**Note:** Approx. **103 SX** of Class G Cement, 1 - 4.5" CICR and 1 – 4.5" CIBP are needed for this procedure.

1. MIRU. ND WH, NU AND TEST BOPE. **NOTE: UTILIZE WELL SERVICES GUIDELINES FOR WELL CONTROL WHENEVER RIGGING UP BOPE AND WIRELINE, OR WHENEVER TRIPPING IN OR OUT OF THE WELL.**
2. POOH W/ PRODUCTION STRING. RU W/L. RUN A GAUGE RING TO PBTD. PU CIBP AND SET CIBP @ 2176'. RUN CBL IN ORDER TO DETERMINE THE ETOC. RD W/L.
3. ISOLATE MANCOS PERFS (2226'-2442'): TIH W/ WORKSTRING AND PUMP A 4 SX CMT PLUG ON TOP OF CIBP FROM 2226'-2176' (50').
4. AFTER SETTING PLUG, PRESSURE TEST CASING.
5. ISOLATE MANCOS TOP (TOP @ 520'): POOH W/ WORKSTRING AND L/D UNNEEDED TUBING. RU W/L AND PERF @ 570'. RD W/L. PU CICR AND RIH AND SET CICR @ 540'. PUMP 28 SX OF CLASS G CMT UNDER THE CICR. UNSTING FROM THE CICR AND PUMP 8 SX ON TOP OF CICR. TOTAL PLUG FROM 465'-570' (105').
6. PROTECT CASING SHOE AND SURFACE (SHOE @ 165'): POOH W/ WORKSTRING. LD ANY UNNEEDED TUBING. RU W/L AND PERF @ 215'. ESTABLISH CIRCULATION. PUMP AN ANNULAR PLUG FROM 0'-215' AND A PLUG INSIDE THE 4.5" CASING FILLING FROM 215' TO SURFACE. (~63 SX)
7. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
8. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.