

Use safety factor of 70% for collapse and burst pressures.
Assume 2-7/8" workstring will be used.

- Notes:
1. Cement slurry used in this procedure shall be Class "H" neat mixed @ 15.7 ppg and Class "C" neat mixed @ 14.8 ppg.
 2. All mud shall be 9.5 ppg with 25 lbs gel/bbl brine.
 3. Notify BLM prior to commencing any work.

Recommended Procedure:

1. Prepare well for P&A:

- A. MIRU. Bleed well pressure down. Kill well with 9.5 ppg mud if needed.
- B. ND wellhead and NU BOP.
- C. GIH w/7" RBP retrieving head and WS. Release RBP @ 8885'.
POOH.

Note: Use caution, 7" casing cut-off at 2228'.

2. Set CIBP and test 7" casing:

- A. GIH w/7" CIBP, setting tool, 7" model "R" packer, and WS. Set CIBP @ 8880'. Pump 186 bbls mud.
- B. Test CIBP via packer. If CIBP holds continue with procedure. If CIBP does not hold notify engineering.
- C. Set Model "R" packer @ 2280'. Test 7" casing to 500 psi for 15 minutes. If pressure holds continue with procedure. If pressure does not hold, isolate leak and notify engineering.
- D. POOH with WS.

3. Spot cement on CIBP:

- A. GIH with dump bailer and wireline. Spot 18 sx Class "H" cement on CIBP @ 8880'.
- B. POOH with bailer and wireline.

Note: Use caution, 7" casing cut-off @ 2228.

4. Circulate cement up 7" X 9-5/8" annulus and set cement plug across intermediate casing shoe and across Grayburg-San Andres formation:

- A. MIRU wireline services.
- B. GIH with a 4" casing gun loaded w/4JSPF (120° phase, .4" EHD, centralized) and CCL.
- C. Perforate 7" production casing @ 4790'. POOH.
- D. GIH w/7" cement retainer and WS. Set cement retainer @ 4600'. Pump 275 sacks of Class "C" cement.