

WORK OVER PROCEDURE

WELLNAME: **Rothe 13-4**

API # 05-123-12209

Location: NWSW 4 4N 63W 6th 1470' FSL Lat: 40.337727
1125' FWL Long: -104.448651

SPUD DATE: 12/31/1984

SURFACE CASING SIZE: 8-5/8"

SURFACE CASING DEPTH: 307'

AQUIFER DEPTH: 630' water well located 938 ft to the east

ORIGINAL COMPLETION: 12-1/4" ORIGINAL HOLE DRILLED TO 307', 8-5/8" CASING SET AT 307' AND CEMENTED WITH 275 SACKS
TO 7641' (ASSUMING 7-7/8" HOLE SIZE IN ORIGINAL WELLBORE)

ORIGINAL PLUGGING PROCEDURE: 50 SX CEMENT IN OPEN HOLE ACROSS J SAND, 6990-7166'
20 SX CEMENT IN BOTTOM OF SURFACE PIPE, 307'
10 SX IN TOP SURFACE PIPE

REPLUGGING PROCEDURE:

- 1) LOCATE WELL
- 2) DIG OUT CASING WITH BACKHOE & INSPECT CASING PLATE, RESERVE TOPSOIL FOR RECLAMATION
- 3) IF SEALED, HOT TAP CASING TO CHECK FOR PRESSURE
- 4) CUT-OFF PLATE, TRIM UP CASING FOR BELL NIPPLE FOR BOPE
- 5) MIRU WORKOVER RIG, PUMP AND TANK. NU BOPE W/ ROTATING HEAD, RIG UP POWER SWIVEL
- 6) PU 7-7/8" BIT, SUB, DC ON TUBING
- 7) DRILL OUT SURFACE CEMENT, PLUG AT BASE SURFACE @ 307', WITH WATER
- 8) WASH HOLE DOWN TO 3500', WITH WATER/POLYMER AS NEEDED
- 9) CIRCULATE AND CLEAN UP HOLE
- 10) SPOT 200 SX CEMENT PLUG (590 ft) @ 3400', PULL TUBING TO 2800'. REVERSE OUT TUBING AND CLEAN UP EXCESS CEMENT
TOP OF PARKMAN ESTIMATED TO BE 3410' MD IN SECTION 26
- 11) SHUTDOWN OVERNIGHT
- 12) TIH & TAG CEMENT PLUG, RECORD TAG
- 13) TOOH WITH BIT TO 700'. LAY DOWN TUBING ON TOOH
- 14) PUMP 235 SX CEMENT PLUG @ 700' TO SURFACE. PULL TUBING OUT OF HOLE.
- 15) ND BOPE. CUT OFF BELL NIPPLE & CASING TO 4' BELOW GROUND LEVEL. FILL TOP OF CASING WITH READY MIX
- 16) WELD ON PLATE. OPERATOR NAME, API NO., LOCATION
- 17) FILL SURFACE HOLE, MAKING SURE TO REPLACE TOP SOIL LAST
- 18) RIG DOWN AND MOVE OUT ALL EQUIPMENT