

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