

WORK OVER PROCEDURE

WELLNAME: **Grace State 2-1**

API # 05-123-10130

Location: 600 FNL1520 FEL NWNE 2 5N 62W 6th PM

SPUD DATE: 3/10/1981

SURFACE CASING SIZE: 8-5/8" 24#/ft Casing, 12-1/4" hole", 140'

SURFACE CEMENT: Cemented to surface with 150 sx cement

TD: 6900

AQUIFER DEPTH: 350' (estimated Fox Hills), Depth to water in 1 mile radius

ORIGINAL PLUGGING PROCEDURE: Well was plugged March 1981 after a failed test of the J-sand. 15 sxs at base of surface casing, 10 sxs at surface.

FORMATIONS:	As found in well:	Grace State 2-1
	Parkman	3291
	Niobrara	6090
	J Sand	6843

REPLUGGING PROCEDURE:

- 1) LOCATE WELL, FILE FORM 6 NOI TO REPLUG WELL - REQUIRES PHOTOS, SUA, PLUGGING BOND
- 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 BIT, SUB, DC ON TUBING
- 7) DRILL OUT SURFACE CEMENT AND PLUG AT BASE OF SURFACE WITH WATER
- 8) WASH HOLE DOWN TO 3500', USE WATER/POLYMER AS NEEDED

**IF POSSIBLE, CLEAN OUT HOLE TO DEPTH OF NIOBRARA FORMATION. BCEI WILL MAKE ATTEMPT TO SET 100 FT OPEN HOLE CEMENT PLUG ACROSS NIOBRARA IF REACHED.

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- 9) CIRCULATE AND CLEAN UP HOLE
- 10) SPOT 300 SX CEMENT PLUG (510 ft) @3400', DISPLACE PLUG & PULL TUBING TO ~2890'. REVERSE OUT TUBING AND CLEAN UP EXCESS CEMENT
- 11) SHUTDOWN OVERNIGHT
- 12) TIH & TAG CEMENT PLUG, RECORD TAG
- 13) TOOH WITH BIT TO 700'. LAY DOWN TUBING ON TOOH
- 14) PUMP 320 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
- 19) FILE FORM 6 SUBSEQUENT REPORT WITH COGCC