

P&A PROCEDURE

Marquardt Federal #3

1650' FSL & 1650' FWL
SEC 12, T-25-S, R-26-E
Eddy County, New Mexico

Date: November 5, 2001

WBS NO:

Purpose: Plug & Abandon

Elevation: 3297' GL 3316' KB

TD: 11,700' PBTD: 11,180' (CIBP at 11,200' w/ 20' cmt)

Surface Csg: 20", 94# at 407' w/ 900 sx., circulated.

Int. Csg: 10-3/4", 40# at 1799 w/ 1850 sx, circulated.

Prod. Csg: 7-5/8", 26.4# at 8764' w/ 650 sx. TOC at 4880' by TS.

Liner: 5", 15#, N-80 extreme line from 8287' to 11,695' w/ 650 sx. Squeezed liner top w/ 200 sx.

Tubing: 2-3/8", 4.7#, N-80, EUE tubing to 10,863', on-off tool w/1.81" profile at 10,864', Guiberson Uni-VI packer at 10,872'.

Perfs: 10,940'-42', 11,018'-25' (open)

11,253'-11,658' (abandoned below CIBP w/ 20' cement at 11,200')

Comments: Notify OCD District 2 office in Artesia (505.748.1283) minimum 24 hours prior to commencing w/ procedure.



PROCEDURE

1. MIRUPU. ND wellhead. NU BOP's.
2. Release Guiberson Uni-VI packer at 10,872' and POOH w/ 2-3/8" tubing, laying down.
3. RU wireline. RIH w/ 5" CIBP and set at 10,900'. Dump bail 35' cement on CIBP. RD wireline.
4. PU 2-7/8" workstring.
5. Tag plug at 10,900'. Displace casing w/ 9.5 PPG salt gel mud from top of plug to surface.
6. POOH laying down 2-7/8" work string to 8900'.
7. Spot 25 sack balanced cement plug at 8900'. Tag plug
8. Spot 25 sack balanced cement plug at 8350'. Tag plug.
9. POOH laying down 2-7/8" work string to 1750'. Stand back 1750' of 2-7/8" work string.
10. RU wireline. Perforate 1' of squeeze holes at 4 JSPF at 1850'. RD wireline.
11. Establish rate into perforations and attempt to circulate to surface w/ 9.5 PPG salt gel mud.

- * 1) spot 100' cement plug at 5650'. Tag plug.
- 2) perf at approx 3450' and squeeze cement behind pipe. spot 100' plug. Tag.

