

**MATTIX NO 1
PLUG AND ABANDONMENT**

INTRODUCTION:

This well was TSI on February 25, 1994 due to a tubing leak. The well is depleted and should be permanently plugged and abandoned.

WELL DATA:

Location: 660' FSL & 1830' FEL, Sec 10, T-24-S, R-37E, Lea County, New Mexico
G.L. Elevation: 3244'

EQUIPMENT:

Lufkin 320D w/ 25 HP motor. Rods and 2 7/8" tubing are still in the hole.

REGULATORY:

This well is completed in the Fowler Upper Yeso Pool. Regulatory approval is required for this work.

CASING & TUBING SPECS:

OD (inches)	WT (ppf)	Grade	Drift ID (inches)	Depth	Collapse @ 100% (psi)	Burst @ 100% (psi)	Capacity (bpf)	Capacity (cfpf)
8 5/8	24	K-55	7.972	970'	1,370	2,950	*	*
5 1/2	14	J-55	4.887	5800'	3,120	4,270	.0244	.1370
2 7/8	6.5	J-55	2.347	5720'	7,680	7,260	.00579	.0325

RECOMMENDED PROCEDURE:

1. MIRU workover rig. Kill well if necessary. POOH with rods & pump. ND WH & NU BOPE. TFF and POOH with tubing.
2. RIH with 4 3/4" bit & 5 1/2" casing scrapers on tubing to 5230'. POOH.

NOTE: 1. Use Class C cement mixed at 14.8 ppg with 2% CaCl₂ for all cement work except final surface plug which will contain 18% CaCl₂. Yield = 1.32 ft³/sx.
2. For remainder of procedure use P&A brine - 10 ppg brine with 25 lbs/bbl of salt gel.

3. RIH with 5 1/2" CIBP & set at 5200'. Pick up tubing and circulate hole with P&A brine. Spot 30 sx (289') cement cap on CIBP to cover the squeezed Paddock perforations.
4. Slowly PUH well above top of cement @ +/- 4911' and reverse cement out of tubing.
5. POOH laying down tubing to 3290'. Spot 50 sx plug (482') to cover top of Langlie Mattix waterflood interval (Meyers Langlie Mattix Unit).

6. **Slowly** PUH well above top of cement @ +/- 2809' and reverse cement out of tubing.
7. POOH laying down tubing to 2500'. Spot 25 sx (241') cement plug 2500'-2259' across base of salt section.
8. POOH laying down tubing to 1250'. Spot 25 sx (241') cement plug 1250'-1009' across top of salt section. POOH with tubing.
9. RU wireline. RIH and perforate 5 1/2" casing at 980' at 4 JSPF. RD wireline.
10. RIH to 980' with tubing. Establish injection rate through perfs and up 5 1/2" X 8 5/8" annulus. Pump 370 sxs (50% excess) Class C cement mixed at 14.8 ppg with 18% CaCl₂ taking returns through casing valve. When cement circulates to surface, close valve and fill 5 1/2" casing to surface with cement (105 sxs).
11. If cement does not circulate to surface, pump 100 sxs down 5 1/2" X 8 5/8" annulus.
12. Cut off casing 3' below surface. Weld 1/4" thick metal plate on wellbore. Install P&A marker with well name and location inscribed on marker.
13. Restore location.

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