

Workover Procedure

Marshall "B" No. 7

2310' FSL, 330' FWL
Section 27, T21S & R37E, U/L "L"
Drinkard Field, Lea County, New Mexico

AFE NO.: 303000

Date: May 24, 2000

Purpose: Isolate the ABO, and re-complete well in the Tubb formation.

Elevation: **KB:** 3431' **PBTD:** 7416' – CIBP @ 7559' over open-hole 7574'-7774',
and CIBP @ 7430' over perfs 7480'-7518'
GL: 3420' **TD:** 7774'

Estimated Cost:

Estimated Re-completion Duration:

WI: 100% **NRI:** 87.5%

Surface Casing: 13-3/8", 48#, H-40, 8rd ST&C, casing set to 298'. Cemented w/ 250 sx. Regular (Trinity) cement. Circulated cement to surface.

Intermediate Casing: 8-5/8", 32#, J-55, 8rd LT&C, casing set to 2798'. Cemented w/ 1200sx. Regular (El Toro) cement (800 sx. of 3% HOWCO gel). Circulated cement to within 200' of surface.

Production Casing: 5-1/2", 17#, J-55, 8rd LT&C, seamless casing set to 7574'. Cemented w/ 1000sx. Regular (Atlas) cement (800 sx. of 5% HOWCO gel). Circulated cement to within 2400' of surface.
ID = 4.892" Drift = 4.767" Burst = (80% = 4256 psi)

Production Tubing: 2-3/8", 4.7#, J-55 tubing with a tubing anchor, SN, and mud joint.

Rod String / Pump: 3/4" and 7/8" Norris "97" rods with a 1-1/4" insert pump.

Perforations: Abandoned (Ellenburger) – 7574'-7774' Open-hole

Abandoned (Ellenburger) – 7480', 7484', 7486', 7491', 7494', 7498', 7502', 7508', 7510', 7513', 7518', w/ 1 JSPF.

Existing (Wantz Abo) – 7153', 7161', 7170', 7175', 7181', 7189', 7202', 7214', 7218', 7223', 7227', 7230', 7237', 7240', 7245', 7148', 7257', w/ 1 JSPF on 12/74.

Existing (Wantz Abo) – 6746', 6756', 6759', 6771', 6782', 6789', 6798', 6812', 6914', 6926', 6994', 7005', 7036', 7064', 7078', 7094', 7120', 7262', 7268', 7282', 7314', 7322', 7332', 7348', 7354', 7372', 7378', w/ 1 JSPF on 9/86.

Latest Test: 11/07/97 – 0.2 BOPD, 20 MCFPD, and 0.4 BWPD. Well is TA^D.

Estimated Bottom Hole Pressure: Tubb ~ 1000 psi

Safety: Run sufficient amount of killstring during any extended shut-in period.
Install H₂S monitoring alarm and rescue equipment.
2-7/8", 6.5#, L-80 tubing – (80% Burst = 8456 psi)

PROCEDURE:

1. Notify Hobbs personnel of impending workover. Test safety anchors on location to 22,500# if necessary.
2. MIRUPU. Disconnect surface equipment.
3. Hang off pumping unit. Lay down polish rod. POOH with 7/8" rods, 3/4" rods, and 1-1/4" insert pump.