

# Workover Procedure

## Hansen State No. 8

1650' FNL, 1890' FEL  
Section 16, T20S & R37E, U/L "G"  
Monument Field, Lea County, New Mexico

**AFE NO.:** 302300

**Date:** April 24, 2000

**Purpose:** Isolate the Abo, and recomplete well in the Paddock formation

**Elevation:** **KB:** 3367' **PBTD:** 7675'  
**GL:** 3354' **TD:** 7776'

**Estimated Cost:**

**Estimated Recompletion Duration:** 5 days

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

**Surface Casing:** 8-5/8", 24#, K-55, LT&C, casing set to 1140'. Cemented w/ 570 sks., circulated 209 sks.

**Production Casing:** 5-1/2", 15.5# & 17#, K-55, LT&C, casing set to 7776'. Cemented in two stages w/ DV tool. 1<sup>st</sup> stage w/ 600 sks., and 2<sup>nd</sup> stage w/ 940 sks. No circulation on either stage.  
ID = 4.892" Drift = 4.767" Burst = (80% = 3848 psi)

**Production Tubing:** 2-3/8", 4.7#, J-55 tubing with a 5-1/2" TAC at 6985', a seating nipple at 7297', and an OP mud joint at 7326'

**Rod String / Pump:** 95-1" Fibercom FG, 126-7/8" Grade D, 19-7/8" Grade D molded, 1-26K(7/8") Shear Tool, 1-7/8" Grade D molded, 2"x1-1/2"x30'x6' RHBC Pump, 1-1/4"x10' Gas Anchor

**Perforations:** Abo 7057'-68', 7047'-77', 7090'-7103', 7130'-7150', 7151'-7170', 7171'-7175', 7190'-7203', 7214'-7229', 7237'-7258' ( 2 JSPPF ).

**Latest Test:**

**Anticipated Bottom Hole Pressure:** Paddock ~ 750 psi

**Safety:** Run sufficient amount of killstring during any extended shut-in period.  
Install H<sub>2</sub>S 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 1" and 7/8" rods, and 1-1/2" insert pump.
4. ND wellhead. NU 7 1/16" 3M hydraulic BOP stack w/ 2-3/8" pipe rams on top and blind rams on bottom.
5. Release TAC at ±6985'. POOH with 2-3/8" production tubing.
6. Change pipe rams on BOPE to 2-7/8".
7. RIH with 2-7/8", L-80 workstring and set a tension set BP at ±100'. Pressure test pipe rams to 1,000 psi. POOH with tubing and setting tool. Pressure test blind rams to 1,000 psi. RIH with BP retrieving tool, latch onto BP, and release. POOH with BP.
8. RIH with 5-1/2" CIBP on 2-7/8" workstring. Set CIBP at ±7,000'. (Note: casing collars at 6979', and 7026'). Pressure test CIBP to 1,500 psi. Circulate hole clean with 2% KCL water. Pickle tubing string with 750 gals. of 15% HCL acid at 1 BPM. Reverse circulate acid out with 2% KCL water. Spot 250 gal. of Double Inhibited Carbonate Completion Acid across perforations at 5,162'-5,226'. POOH with workstring.