

SHIPP "34" NO. 4
Casey Field

Workover to Recomplete to Wolfcamp

1. MIRUSU.
2. POH with rods and pump, laying down fiberglass rods.
3. Remove wellhead, release tubing anchor, and install BOP.
4. POH with 2-7/8", 6.5#/ft, N-80, EUE, 8R production tubing.
5. Rig up electric line truck with lubricator and pack-off.
 - A. GIH with a CIBP and set at 11,250'.
 - B. GIH with a dump bailer and dump 35' of cement on top of CIBP.
 - C. Load the hole with 2% KCl.
 - D. GIH with 4" hollow steel carrier perforating guns, 90° phasing, 1 jspf and perforate the interval listed below.

10,948' - 10,965' 17' 18 holes

Correlate with Welox Density/Neutron Log dated 8/16/87
(Wedge CRC Correlation Log dated 9/8/87)
6. GIH with a treating packer on production tubing to 10,965'. Hydrotest tubing to 6,000 psig.
7. Acidize the Wolfcamp perforations, 10,948'-10,965' with 3,000 gal of 15% NE-FE HCl *acid as follows:
 - A. Spot 200 gal *acid from 10,965' to 10,760'.
 - B. Pull packer uphole to 10,730' and set packer.
 - C. Pressure up backside to 1000 psig.
 - D. Attempt to breakdown perfs with 2% KCl.
 - E. Pump 2,800 gal *acid, dropping 1 ball sealer every 2 bbl of acid (total of 36 balls, 7/8", 1.3 SG). If ballout occurs, surge balls, then continue treatment.
 - F. SI well for 1 hour.

Expected rate and pressure: 1-1/2 - 2 BPM at 3500 psig
Maximum rate and pressure: 3 BPM or 5000 psig

NOTE: If pressure limit is OK, try to treat at 3 BPM. If formation will not breakdown, re-spot acid and let soak. If necessary, soak overnight with 5000 psig.