PHILLIPS PETROLEUM COMPANY
Odessa, Texas
May 16, 2001
LEAMEX #7
FRACTURE TREAT GRAYBURG AND REACTIVATE
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Recommended Procedure

1. MIRU DDU. Hook up workover pit. ND wellhead and NU shop tested, Class 1 BOP and environmental tray.

2. PU and TIH with 5 1/2" treating packer on 3 1/2" workstring. Test workstring to 6000# while GIH. Set packer at 4640'+/- and test CIBP to 1000#. Release packer and set packer at 4350'+/-.

3. MIRU Halliburton. Test surface lines to 5500 psig and pressure annulus to 500 psig. Fracture treat Grayburg perfs, 4375-4606', w/ 31,200 gallons of 30/25# Delta Frac carrying 104,500 lbs of 16/30 mesh Brady sand. Treat at 35 BPM and max P of 4500 psig as follows:

    a. Pump 7200 gallons of 30# Delta Frac Pad.
    b. Pump 9000 gallons of 25# Delta Frac, Ramp 1-4 ppg 16/30 Brady Sand (22500 lbs).
    c. Pump 8000 gallons of 25# Delta Frac, Ramp 4-6 ppg 16/30 Brady Sand (40000 lbs).
    d. Pump 7000 gallons of 25# Delta Frac, 6 ppg 16/30 Brady Sand (42000 lbs).
    e. Flush w/ 1570 gallons of slick water (one bbl short of top perf).
    f. Record ISIP, 5 min, 10 min, and 15 min shut in pressures.
    g. Shut in well until gel breaks.

4. RU swab equipment and swab well in. RD swab equipment.

5. Unseat packer. TOOH and LD workstring and packer.

6. Haul in 2 3/8" tubing and rods. TIH with 2 3/8" production tubing.

7. ND BOP and NU WH.

8. RIH with pump and rods.

9. Install Pumping Unit from Leamex #38.

10. Hang well on. RDMO DDU and place well on production. Report results in DIMS for three days and drop from report.