## EMSU #182 Eu e Monument Grayburg / San An s Field Lea County, New Mexico July 11, 1996

## Workover Procedure - Acidize Stimulate

- 1. MIRU PU. POH w/ rods & pump. Install BOP. GIH, tag for fill & POH w/ prod. tbg.
- 2. If significant fill is indicated on TD check (i.e., above 3830 +/-), RU Rev Unit. GIH w/ bit, DC's, etc. on tbg. C/O to +/-3865'. (Catch samples and analyze for composition) RD Rev Unit. POH w/ tbg, DC's & bit.
- 3. GIH w/ seating nipple, trtg pkr & tubing unloader on tbg. Set pkr @ 3584' +/-. Drop standing valve and seat in SN. RU BJ Services. Pick up on tubing to set tbg unloader in circ. position. Pickle tubing with 300 gals 15% NEA acid\*. Flush to bottom of tbg w/ water. Pump pickle acid at approximately 1/2 BPM. Load backside and circulate pickle acid out of tbg (at 1/2 BPM when catch pressure on backside). Repickle tubing if iron counts are above +- 2000 ppm on "last in" acid. Slack off on tbg to set tbg unloader in closed position. Fish standing valve. Acidize perfs (3634' 3820') w/ 3000 gal Resisol II+ [viscosified aromatic solvent (20% by vol.)] and acid (80% by vol.)] in 4 stages at rate of 3-4 BPM and max. trtg press of 1250 psig STP, while monitoring backside, as follows:
  - A. Pump 750 gal Resisol II+\*\*.
  - B. Drop 250-500# Trimix salt in 10 bbls. gelled Brine water\*\*\*
  - C. Repeat step A & B two times. Vary block size depending on response encountered in previous salt block.
  - D. Pump 750 gal Resisol II+\*\*.
  - E. Flush to top perf / open hole with water.\*\*\*
- 4. RD Trtg Co. Shut well in a minimum of 3 hours after treatment.
- 5. Flow/swab back acid residue until well cleans up. POH w/ pkr & tbg.
- 6. GIH w/ prod tbg. ND BOP. GIH w/ pump & rods. Hang well on. RD PU.
- 7. Test well & report results to Midland office.
- \* Pickle acid to contain: 1 gal / 1000 gallons CI-23 Corrosion Inhibitor & 300 gallons 15% HCL
- \*\* BJ's Resisol II+ -- Iron control system to follow tapered concentration as follows: LEAD 2000 = 3 gal/1000 FE270 & 1 gal/1000 FE271

TAIL 1000 = 1.5 gal/1000 FE270 & 1 gal/1000 FE271

\*\*\*Also, All flush water and diverter GBW stages to contain appropriate de-emulsifiers (NE agents)

Prepared by:	Jimmy Dolan	Petroleum Engineer
--------------	-------------	--------------------