EMSUB #900 660' FNL & 1650' FEL, B-23-20S-36E Lea County, New Mexico 30-025-04297 FA5440

## Producer Open Hole Under-reaming

## Well Data

Tubing:

2-3/8"

Casing:

5-1/2", 17# @ 3746'

TD:

4127'

PBTD:

4127'

Elevation:

3569' GL

4-3/4" Open Hole 3746' – 4127'

## Procedure

- 1. Comply with all company and governmental safety and environmental regulations.
- 2. Rig up pulling unit. ND wellhead. NU BOP.
- 3. TOH with rods and pump. Visually inspect for scale, paraffin, and wear. Scanalog 2-3/8" production tubing out of hole.
- 4. TIH with 5-1/2", 17# casing scraper on 2-7/8" workstring. Make scraper run to the casing shoe at 3746'. TOH with scraper.
- 5. TIH with 5-1/2", 17# treating packer on 2-7/8" workstring. Set packer at 3700'. Pressure test casing above packer to 300 psig for 30 minutes. Repair casing leak as required.
- 6. Rig up pump truck and Production Logging, Inc. Run pump in tracer survey of open hole section 3746' 4127'. Rig down Production Logging, Inc. TOH with workstring and packer.
- 7. Rig up Weatherford reverse unit with operator or fisherman who is experienced at underreaming. TIH with 4-3/4" mill tooth bit and 6 3-1/2" drill collars on 2-7/8" workstring. Clean well out to TD at 4127'. TOH with bit and collars.
- 8. TIH with 4-1/2" X 6-1/4" under-reamer and 6 3-1/2" drill collars on 2-7/8" workstring. Under-ream Grayburg 4-3/4" open hole section to 6-1/4" from 3850' 4127' (277' total), changing reamers as required. Rig down Weatherford.
- 9. TIH with 5-1/2", 17# treating packer on 2-7/8" workstring. Set packer at 3700'. Acidize Grayburg open hole section 3746' 4127' with 3500 gal 80/20 mix of HCl and solvent (2800 gal 20% HCl and 700 gal toluene) staged with rock salt in 10#/gal brine as diverter. Flush acid to casing shoe at 3746' with 2% KCl water.
- 10. Rig up pump truck and Production Logging, Inc. Run pump in tracer survey of open hole section 3746' 4127'. Rig down Production Logging, Inc. TOH with workstring and packer.