

**EMSUB #890**  
**660' FSL & 660' FEL, P-14-20S-36E**  
**Lea County, New Mexico**  
**30-025-04266**  
**FA5410**

1/30/2002

### **Producer Open Hole Under-reaming**

#### **Well Data**

Tubing: 2-3/8"  
Casing: 5-1/2", 17# @ 3756'  
TD: 4110' PBD: 4110' Elevation: 3560' GL

Squeezed Perforations 3422' – 3666'

Open Perforations 3694' – 3698', 3708' – 3712', 3718' – 3722', 3735' – 3740',  
and 3755' – 3760'

Sidetrack around junk at 3905'

4-3/4" Open Hole 3756' – 4110'

#### **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 3756'. TOH with scraper.
5. TIH with 5-1/2", 17# treating packer on 2-7/8" workstring. Set packer at 3680'. 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 Grayburg completion 3694' – 4110'. Rig down Production Logging, Inc. TOH with workstring and packer.
7. Rig up Weatherford reverse unit with operator or fisherman who is experienced at under-reaming. 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 4110'. 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 3920' – 4110' (190' total), changing reamers as required. Collect samples. Rig down Weatherford.