

**EMSUB # 872 WIC**  
**330' FNL & 2310' FWL, C-14-20S-36E**  
**Lea County, New Mexico**

2/18/2002

**Injector Re-activation & Acid Stimulation**

Well Data

Tubing: 2-3/8" IPC  
Casing: 5-1/2", 17# @ 3750'  
4-1/2", 11.6# K-55 RFC Liner (3453' - 4036')  
TD: 4200' PBD: 4020' Elevation: 3566' GL 6' KB

4-1/2" Baker TSN Packer @ 3748'

Open Perforations

Grayburg Zone 2: 3805' - 3810' & 3820' - 3844'  
Grayburg Zone 3: 3863' - 3887' & 3896' - 3908'  
Grayburg Zone 4: 3926' - 3946' & 3970' - 3980'

PBD with Cement @ 4020'

4-3/4" Plugged Back Openhole 4036' - 4200'

Procedure

1. Comply with all company and governmental safety regulations.
2. Rig up pulling unit. ND wellhead. NU BOP.
3. TOH with 4-1/2" Baker TSN injection packer and 3748' of 2-3/8", 4.7# IPC injection tubing. Re-dress and nickel-plate packer.
4. TIH with 3-3/4" mill tooth bit and casing scraper on 2-3/8" workstring. Clean well out to PBD at 4020'. TOH with bit and scraper.
5. TIH with 4-1/2", 11.6# treating packer on 2-3/8" workstring. Set packer at 4000'. Pressure test casing below packer to 500 psig. Set packer at 3750'. Test casing above packer to 500 psig. TOH with packer. If no leak is found, proceed to step #13.
6. TIH with 5-1/2", 17# casing scraper on 2-3/8" workstring. Make casing scraper run to 4-1/2" liner top at 3453'. TOH with scraper.
7. TIH with 4-1/2", 11.6# RBP on 2-3/8" workstring. Set RBP at 3465'. TOH with setting tool.
8. TIH with 5-1/2", 17# treating packer on 2-3/8" workstring. Set packer at 3440'. Pressure test liner top below packer to 500 psig for 30 minutes. Test casing above packer to 500 psig for 30 minutes. Locate hole with packer. Establish an injection rate with water and design cement squeeze. TOH with 5-1/2" packer. TOH with 4-1/2" RBP.
9. Set RBP just below casing leak and cap with sand.