

## WORKOVER PROCEDURE

DATE: 3/20/89

WELL & JOB: Empire Abo Unit # F-36 - Plugback to Upper Abo Interval

DRILLED: 1960

LAST WORKOVER: 7-88

FIELD: Empire Abo

COUNTY: Eddy, NM

BY: Joel Talley

TD: 6339'

PBD: 6304'

DATUM: GL to KB 15'

TUBINGHEAD: 6" - 600

SIZE: 7-1/16"

PRESS RATING: 3000

CASING:	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>SET @</u>	<u>SX CMT</u>	<u>TOC</u>
SURFACE:	8-5/8"	24#	J-55	775'	450	surf
INTER:						
PROD:	4-1/2"	9.5	J-55	6339'	950	975' (TS)
LINER:	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TOP</u>	<u>BTM</u>	<u>TO</u>

PERFORATIONS: Current 6375'-6192' & 6184'-6118', Proposed 6110'-6118', 6048'-6060' & 6002'-6010'

TUBING:	<u>SIZE</u> : 2-3/8"	<u>WEIGHT</u> : 4.7#	<u>GRADE</u> : J-55	<u>THREAD</u> : EUE 8rd
BTM'D @ 6074'		<u>JOINTS</u> : 195	<u>MISC</u> :	

PACKER AND MISC: SN & Model 'R' Pkr w/ 12 pts compression

HISTORY AND BACKGROUND: Recompleted in upper zone 7-88 & flowed until died. Swabbed and well made only water after initial recovery of 28 bbls oil. SI with packer.

SCOPE OF WORK: Recomplete in upper Abo zone.

### PROCEDURE

1. Notify NMOC Commission of intention to recomplete the well.
2. Test anchors. MIRUPU. Check well for pressure and bleed off.
3. Release Model 'R' Pkr & POH w/ 2-3/8" production tbg. Visually inspect the tbg for workover use.
4. Set CIBP on WL @ 6160'. Load & test csg to 500 psi w/ produced water for 15 minutes. If csg does not hold RIH w/ Pkr and isolate leak for squeeze work.
5. Perforate Abo with 2 JSPF f/ 6110'-6118' (correlate with Schlumberger's GR-N dated 7/14/60). If well goes on vacuum swab prior to acidizing.
6. RIH w/ Pkr and 2-3/8" tbg, hydro-testing tbg to 4000 psi, to 6120'. Spot 100 gals across perfs and pull packer to 6020'. Reverse 5 bbls water up tbg and set Pkr.
7. Load and test annulus to 500 psi and acidize perfs w/ 1000 gals 15% NEFE HCL acid at 1 BPM. Flush to btm perf w/ produced water. Maximum treating pressure is 1000 psi.
8. SI for 30 minutes and record pressure every 10 minutes. Swab and evaluate.
  - If zone is productive continue with step 12.
  - If zone is not productive continue with step 9.