

WORKOVER PROCEDURE

DATE 3/18/87

WELL NO. & TYPE OF JOB: Empire Abo Unit #G-34 ARCO WI: 34.1407%

JOB TITLE: Plug Back & Reperforate/Repair Casing Leak

DRILLED & COMPLETED: 5/60 LAST WO: 9/86

FIELD: Empire Abo COUNTY: Eddy County, NM PREPARED BY: M.B. Smith

TD: 6491' PBD: 6257' DATUM: RKB DIST RKB TO GL: 15'

TUBINGHEAD: MAKE NA SIZE NA PRESSURE RATING NA

CASING INFORMATION:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	<u>8-5/8"</u>	<u>22.7</u>	<u>NA</u>	<u>1280'</u>	<u>550</u>	<u>Surface</u>

PRODUCTION:	<u>4-1/2"</u>	<u>9.5</u>	<u>J-55</u>	<u>6491'</u>	<u>850</u>	<u>Primary</u>
						<u>1700(CBL)</u>

PRESENT PERFORATIONS Empire Abo 6224-44 (2 JSPF)

TUBING SIZE: 2-3/8" WT: 4.7 GRADE: J-55 THD CONN: EUE 8R NO. JTS. 197 @ 6166'

PACKER & MISC.: Lok-set packer set at 6166' w/5000# tension. Kobe cavity
(13.23') just above packer. Tubing and casing reported to have 1050 psi
SIP. Also suspect leak in production casing. Analysis of water flowed f/
casing indicates it is not Abo water.

PROCEDURE

1. Test anchors. MIRU PU. Check well for pressure and bleed off. Kill well w/produced water as necessary. ND wellhead and NU BOP.
2. Release Lok-set packer at 6166', lower to top perf at 6224' and POH.
3. WL set a 4-1/2" CIBP at 6215' (Note: Be cautious running CIBP through DV tool at 1600'). Pressure test 4-1/2" casing to 500 psi. Isolate any holes and establish injection rates and pressures.
4. Perforate the Empire Abo formation f/6180' to 6188' w/2 JSPF (18 holes). Correlate with Schlumberger LL-GR-N dated 5-4-60.
5. RIH w/treating packer and SN on 2-3/8" production tubing hydro-testing in the hole to 3500 psi above the slips.
6. Set packer at +6100' and treat the Abo perfs w/1000 gal 70/30 15% HCL acid and xylene (DAD treatment) at 1-3 BPM. Flush to the bottom perf w/produced water. MXP 1000 psi.