

WORKOVER PROCEDURE

DATE: 8/21/92

WELL & JOB: Empire Abo Unit N-6/ P&A

DRILLED: 1960

LAST WORKOVER: 3/13/92

FIELD: Empire Abo

COUNTY: Eddy, NM

BY: B. G. Voigt

TD: 5703'

PBD: 5565'

DATUM: 10' KB

TUBINGHEAD: ?

SIZE:

PRESS RATING:

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 lb.	J-55	1481'	700	circ.
INTER:						
PROD:	4-1/2"	9.5 lb.	J-55	5703'	350	3820'
LINER:	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TOP</u>	<u>BTM</u>	<u>TO</u>

PERFORATIONS: 5475-5490', 5534-5558', and 5586-5608' (plugged in 1960)

TUBING:	SIZE:	WEIGHT:	GRADE:	THREAD:
BTM'D @		JOINTS:	MISC:	

PACKER AND MISC: CIBP at 5415'.

HISTORY AND BACKGROUND: The EAU N-6 was drilled in 1960. The two intervals (5534-5558' and 5586-5608') were the first zones tested. The entire interval was plugged back, but the interval from 5534-5558' was re-perforated. The zone from 5475-5490' was also perforated, acidized, and fraced. The well continued to be a flowing oil producer until it was converted to a rod pumped well in September of 1989. In March of 1992, production rigged up to run a packer on the well. When they pumped water down the casing to kill the well, oil started coming up around the wellhead (below the 8-5/8" tie in). The leak was believed to be a hole in either the 8-5/8" casing or the 4-1/2" casing. The 4-1/2" casing between 5430' and 5465' appeared to be corroded while running a gauge ring and collar locator. A CIBP was then set in the 4-1/2" casing at 5415'.

SCOPE OF WORK: P&A

PROCEDURE

1. Notify BLM in Carlsbad, NM (505) 887-6544 of intent to P&A.
2. MIRU. ND WLHD. NU BOP.
3. TIH with tension set packer and isolate casing leaks. POOH with the packer. If leaks exist, they will have to be squeezed.
4. RIH with open ended tubing to top of CIBP at 5415'. Spot 5 sx Cl C neat cement on top of CIBP. Displace the hole with 10 ppg MLF.
5. PUH to 3880' and spot 10 sx. Cl C neat balanced plug from 3880' to 3735'. POOH.
6. RIH and perforate squeeze holes at 2720'. RIH with CICR on workstring and set at 2470'. Squeeze 78 sx Cl C neat plug across Glorieta from 2720'-2470'. Displace hole with 10 ppg MLF. POOH.
7. RIH and perforate squeeze holes at 1550'. POOH. Close blind rams and attempt to break circulation to surface. ND BOP and NU cementing head on 4-1/2" casing. Pump 440 sx Cl C neat cement down 4-1/2" casing and out annulus. Do not displace cement.

3. Cut off csg & install top hole marker