

WORKOVER PROCEDURE

DATE: May 5, 1989

WELL & JOB: Empire Abo Unit # H-33 Plugback to Upper Abo Interval

DRILLED: 1960

LAST WORKOVER: 2-89

FIELD: Empire Abo

COUNTY: Eddy, NM

BY: Janet Harris

TD: 6337'

PBD: 6303'

DATUM: RKB 13'

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"	22.7	J-55	1228	500	surf
INTER:						
PROD:	4-1/2"	9.5	J-55	6337'	850	2780 (TS)
LINER:	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TOP</u>	<u>BTM</u>	<u>TO</u>

PERFORATIONS: Current 6236'-6266', Proposed 6172'-6190', 6133'-6158' & 6082'-6100'

TUBING:	SIZE: 2-3/8"	WEIGHT: 4.7#	GRADE: J-55	THREAD: EUE 8rd
BTM'D @ 6287'		JOINTS: 201	MISC:	

PACKER AND MISC: Baker Model "B" T.A.C. with 15 pts. tension @6280' (201 jts.)

HISTORY AND BACKGROUND: Converted from Unidraulic to Rod Pump in December of 1986. 2/2/89 well had all sucker rods removed and was shut in. Pumping unit was also removed from the site.

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. ND wellhead and NU BOP.
3. Release Baker Model "B" TAC, POH w / 2-3/8" production tbg. Visually inspect the tbg for workover use.
4. RU WL and set CIBP @ 6220'. 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/ 6172'-6190' (correlate with Schlumberger's GR-N dated 6/12/60). If well goes on vacuum, swab test .
6. RIH w/ Pkr and 2-3/8" tbg, hydro-testing tbg to 4000 psi, to 6192'. Spot 100 gals across perfs. Pull packer to 6090' or approx. 100' above perfs. 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 with maximum treating pressure of 1000 psi. Flush to bottom perf. with clean produced water.
8. SI for 30 minutes. Record surface pressure every 10 minutes. Swab/flow back and evaluate.
 - If zone is productive skip to step 12, otherwise, continue with step 9.

9. POH w/ Tbg & Pkr. WL set CIBP @ 6165' & test to 500 psi. Perforate f/ 6133'-6158' w/ 2 JSPF. Repeat acidizing and swab evaluations in steps 5, 6, 7 and 8.
 - If zone is productive skip to step 12, otherwise, continue with step 10.
10. POH w/ tbg & Pkr. WL set CIBP @ 6120 & test to 500 psi. Perforate f/ 6082'-6100' w/ 2 JSPF. Repeat acidizing and swab evaluations in steps 5, 6, 7 and 8.
 - If zone is productive skip to step 12, otherwise, continue with step 11.
11. POH w/tbg and pkr. WL set CIBP @ 6044' (Top of ABO Reef) to TA well pending engineering Evaluation.
12. POH w/ tbg & Pkr. RIH w/ completion assembly as per Production Department specifications. TOTP.

VDK

Empire Abo Unit No. H-33

Drilled 1960 RKB 13'

