

0, 1 - 3

WORKOVER PROCEDURE

DATE: Jan. 27, 1987

WELL NO. & TYPE OF JOB: R. F. Fort # 1 : Raise TOC and Acidize

DRILLED & COMPLETED: 1985 LAST WO: 12/85 - CO Pump

FIELD: South Knowles COUNTY: Lea, New Mexico PREPARED BY: Trent Day

TD: 12,225' PBD 12,224' DATUM: RKB DIST RKB TO GL: 22'

TUBINGHEAD: MAKE _____ SIZE 7 1/16" Flgd PRESSURE 5000 psi

CASING INFORMATION:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	<u>13 3/8"</u>	<u>54.5 #</u>	<u>K-55</u>	<u>423'</u>	<u>510</u>	<u>Circ'd</u>
INTERMEDIATE	<u>8 5/8"</u>	<u>28 #</u>	<u>S-80</u>	<u>4985'</u>	<u>2570</u>	<u>Circ'd</u>
PRODUCTION:	<u>5 1/2"</u>	<u>17 #</u>	<u>K/L</u>	<u>12,224'</u>	<u>1200</u>	<u>9000' (Calc)</u>
LINER:	_____	_____	_____	_____	_____	_____

LINER: SIZE _____ WEIGHT _____ GRADE _____ TOP _____ BOTTOM _____ TOC _____

PRESENT PERFORATIONS & FORMATION: Devonian perfs 12,172 - 12,223'

TUBING: SIZE 2 7/8" WT 6.5 # GRADE L-80 THD EUE 8rd BTMD @ 12,063'
NO. OF JTS. 364 MISC. MA, PS, SN @ 12,022'

PACKER & MISC.: Baker TAC set @ 12,023' (60 K # shear). Rod string has 26 K # shear tool. Use Devonian produced water as kill and circulating fluid if needed.

PROCEDURE

1. MIRU PU. POH w/ rods and pump. NU BOP. Rlse TAC @ 12,023'. Tag btm w/ CA. POH w/ 2 7/8" CA.
2. RIH w/ RBP on 2 7/8" tbg. Set RBP @ \pm 7000'. Load hole w/ 9.5 ppg BW. Test 5 1/2" csg and RBP to 1000 psi. Spot 4 sx sand on RBP. POH.
3. Perf 5 1/2" csg @ 6400' w/ 4 shots. (Run a CCL strip - No CH logs).
4. RIH w/ trtg pkr on 2 7/8" tbg. Set pkr @ \pm 6350'. PA to 500 psi. Est PIR into perfs @ 6400' w/ MXP 4000 psi. Attempt to est circ to surface via 8 5/8" x 5 1/2" annulus. POH w/ pkr.
5. RIH w/ CIGR on 2 7/8" tbg. Set CR @ 6350'. PA to 500 psi. Cement holes @ 6400' to cmt the 8 5/8" x 5 1/2" annulus f/ 4500 - 6400' to cover the San Andres interval as determined by PIR. POH w/ stinger. WOC as needed. Run TS to locate TOC. Repair casing as needed.
6. RIH w/ 4 3/4" bit, 3 1/2" DC's on 2 7/8" tbg. DO CR and cmt f/ sqz. Test sqzd perfs to 500 psi. Re-Sqz as needed. RIH & wash sd off RBP. POH w/ bit.
7. RIH w/ rtvg hd on 2 7/8" tbg. Circ hole clean w/ Devonian produced water. Rlse RBP and POH.
8. RIH w/ 4 3/4" bit on 2 7/8" tbg and CO fill in 5 1/2" csg to PB 12,224' if needed. POH w/ bit.
9. RIH w/ trtg pkr on 2 7/8" tbg. Set pkr @ \pm 12,100'. PA to 500 psi. Spot acid to pkr and matrix acidz Devonian perfs 12,172 - 12,223' w/ 2000 gals 15 % FE HCl acid @ 0.5 BPM w/ MXP 5000 psi. Flush to btm perf w/ Devonian produced water.