

7. POH w/PFT.
8. RIH w/plr & RBP on 2-7/8" prdn tbg. Set RBP @ 9525'. POH @ set plr @ 9400'. Test Strawn perfs f/9420' - 9506' for flow rate.
9. Rise plr & TTH. Rtrv RBP & POH to 9400'. Set RBP. POH w/tbg & plr.
10. RU WL & perf Strawn f/9144' - 9147', 9160' - 9165', 9172' - 9180', 9194' - 9200' & 9354' - 9360' w/4" csg gun, 2 SPF per Gearhart GR-CNL-LDT run 10/18/88. (Bail Petroleum Surveys).
11. Treat Strawn perfs f/9144' - 9360' w/1500 gals 15% NEFE HCL mixed w/Xylene as per BJ-Titans One-Shot Acid mixture specifications using the Pressure Fluctuating Tool and Procedure:
  - a. Move down through the perforations in the circulation mode (backside open) and pump 1000 to 2000 gal treated 2% KCL water to break down perfs.
  - b. From below perfs, move up through the perfs in the injection mode (backside closed) and pump 15% One-Shot Acid mixture.
  - c. Flush acid to bottom perf with 2% KCL water.
12. POH w/PFT. RIH w/Ret HD & plr to 9100'. Set plr & test Strawn perf f/9144' - 9360' for flow rate.
13. Rise plr & RIH. Rtrv RBP & PUH to 9130'. Set RBP @ 9130'. POH w/plr.
14. RU WL & perf Strawn f/9062' - 9067', 9072' - 9081', & 9084' - 9092' w/4" csg gun, 2 SPF.
15. Treat Strawn perfs f/9062' - 9092' w/1500 gals 15% NEFE HCL mixed w/Xylene as per BJ-Titan's One-Shot Acid mixture specifications using the Pressure Fluctuating Tool and procedure:
  - a. Move down through the perforations in the circulating mode (backside open) and pump 1000 to 2000 gal treated 2% KCL to break down perfs.
  - b. From below the perforations, move up through the perfs in the injection mode (backside closed) and pump 15% One-Shot Acid mixture.
  - c. Flush acid to bottom perf with 2% KCL.
16. POH w/PFT. RIH w/Ret HD & plr on 2-7/8" prdn tbg. Set plr @ 9000'. Test Strawn perfs f/9062' - 9092' for flow rate.
17. Rise plr & TTH. Rtrv RBP @ 9130' & POH w/plr & RBP.
18. RIH w/CA. ND BOP. NU WH. RIH w/rods and pump. Space out.
15. 'OTPS

ME. Edits J. E. Shields

## WORKOVER PROCEDURE

DATE: 12/19/89

WELL & JOB: Langley Boren #2: Add Perfs to Strawn & Stimulate DRILLED: 9/88

LAST WORKOVER: 2/5/89 Stimulated Strawn FIELD: Langley Strawn COUNTY: Lea, NM

BY: A.E. Burdick TD: 10100' FID: 10010' DATUM: RKB 15.7

TUBINGHEAD: F.I.P. SIZE: 11" PRESS RATING: 3000 psi

CASING:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	13-3/8"	54.5#	K-55	1400'	1175	Surf
INTER:	8-5/8"	28# & 32#	S-80	6405'	2535	1343' TS
PROD:						
LINER:	SIZE	WEIGHT	GRADE	TOP	BTM	TOC
	5-1/2"	17#	L80 & K55	6189'	10100	6189'

PERFORATIONS: Strawn 9420' - 9506', Abandon Perfs: Strawn 9790' - 9974' & 9547' - 9612'

TUBING: SIZE: 2-7/8" WEIGHT: 6.5# GRADE: N-80 THREAD: 8rd EUE  
BTMD @ 9525' JOINTS: 299 MISC: TAC @ 9395', perf sub & bull plug.  
PACKER AND MISC: CIBP @ 9531', CIBP @ 9537', CIBP @ 9778', Gubberson RBP-6 @ 10010'.

HISTORY AND BACKGROUND: Abandoned RBP @ 10,010', Set CIBP @ 9778', 12' above zone 1 Strawn perfs 9790' - 9974' & Set CIBP 9537', 10' above zone 2 Strawn perfs 9547' - 9612' during original completion. Set CIBP @ 9531'. The CIBP @ 9537' would not hold pressure.

SCOPE OF WORK: Add Perfs to Strawn and Stimulate.

### PROCEDURE

1. MURU PU. RU hot oiler & hot oil tbg. POH w/rods & pump. ND WH. NU BOP.
2. Rise TAC & POH w/2-7/8" CA.
3. PU B.J. Titan PFT tool. TTH tag CIBP @ 9531'. Lay back one stand.
4. NU Stripper Head & B.J. Titan Equipment. Press test surf equip to 3000#.
5. Treat Strawn perfs f/9420' - 9506' w/1500 gal 15% NEFE HCL mixed w/Xylene as per BJ-Titan's One-Shot Acid mixture specifications using the Pressure Fluctuating Tool and Procedure:
6. Procedure is as follows: (See attachment for BJ-Titan's One-Shot Acid mixture)
  - a. Move down through the perforations in the circulation mode (backside open) and pump 1000 to 2000 gals treated 2% KCL water to break down perfs.
  - b. From below perfs, move up through perfs in the injection mode (backside closed) and pump 15% One-Shot Acid mixture.
  - c. Flush to bottom perf with 2% KCL water.