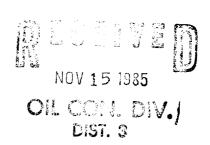
Form approved. Budget Eureau No. 1004-0135 7orm 3160-5 **UNITED STATES** SUBMIT IN TRIPLICATE. Vovember 1983) Expires August 31, 1985 DEPARTMENT OF THE INTERIOR (Other instructions on re-LEASE DESIGNATION AND SERIAL NO. Formerly 9-331) BUREAU OF LAND MANAGEMENT SF-078194 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) RECE 7. UNIT AGREEMENT NAME WELL Y WELL | OTRE NAME OF OPERATOR 8. FARM OR LEASE NAME NOV 12 1985 Tenneco Oil Company Ludwick LS 9. WBLL NO. BUREAU OF LAND MANAGEMENT P. O. Box 3249. Englewood CO 80 LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.) 80155 with any State Wealth MESOURCE AREA 10. FIELD AND POOL, OR WILDCAT Aztec PC 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1650' FNL, 915' FWL Sec. 29, T30N R10W 14 PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6093' DF NM <u>San Juan</u> 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF : PULL OR ALTER CASING TEST WATER SHUT-OFF WATER SHUT-OFF REPAIRING WELL MULTIPLE COMPLETE PRACTURE TREAT FRACTURE TREATMENT ALTERING CARING SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING ABANDONMENT* REPAIR WELL CHANGE PLANS (Nors: Report results of multiple completion on Weil Completion or Recompletion Report and Log form.) Prod. liner & Frac 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco requests permission to run a production liner and foam frac according to the attached detailed procedure.



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18. I bereby certify that the foregolag is true and correct SIGNED	DATE 11/8/85
(This space for Federal or State office use) APPROVED BY	NOV 1 3 1985
CONDITIONS OF APPROVAL, IF ANY:	For A
*See Instructions on Reverse Side	FARMANCE OF HEALT FROM SHEET

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DETAILED PROCEDURE:

- 1. MIRUSU. Kill well if necessary.
- 2. NDWH. Install 5-1/2" x 3-1/2" casing head. NUBOP.
- POOH laying down 1" tubing. Tally in hole w/4-3/4" bit and 2-3/8" tubing. Clean/Drill out to 2700' w/foam. POOH laying down 2-3/8" tubing and bit.
- 4. RIH w/3-1/2", 9.2#, J-55 NUE casing w/guide shoe and Omega latch down baffle on bottom to T.D.
- 5. Pump 5 BBL mud flush and cement 3-1/2" casing w/100 sx 50/50 POZMIX w/15% Diacel D and 4% CaCl₂ ± 12.4 ppg. Flush lines, drop plug and displace w/1 BBL acetic acid followed by 2% KCL water. Do not overdisplace.
- 6. NDBOP. Cut off 3-1/2" casing. Install 4-1/2" x 1-1/4" tubinghead. NUBOP. Pressure test casing to 2500 psi.

DETAILED PROCEDURE

PAGE TWO

LUDWICK LS 1

*

- Run temperature survey from surface to PBTD to determine TOC. Run GR/CNL/CCL from PBTD to 1000'. Telecopy log to Denver.
- 8. Tally in hole w/1-1/4", 2.4# tbg and tag PBTD. Circulate hole w/2% KCL water. Spot 150 gal. 7-1/2% DI HCL across interval to be perforated. POOH w/tubing.
- Perforate PC as per G.E. recommendation w/2 JSPF.
- 10. Break down perfs and establish rate w/2% KCL water. Shut down and record ISIP. Acidize PC perfs w/ 40 gal per perf'd foot weighted 15% HCL and 25% excess ball sealers.
- Roundtrip junkbasket on W.L. Load 5-1/2" x 3-1/2" annulus w/corrosion inhibited water and P.T. to 500 psi.
- 12. Frac the PC down casing w/70% Quality foamed 2% KCL water w/20# gel/1000 gal. Use attached graph for frac design. Call Denver to confirm volumes and rate. Maximum injection pressure = 2500 psi.
- 13. Shut in 2 hrs. and FTCU overnight through 1/2" tapped bull plug.
- 14. RIH w/1-1/4" tubing w/SN 1 jt off bottom. CO to PBTD w/foam. Land tubing @ ± bottom of PC perfs. NDBOP. NUWH.
- 15. Kick well around w/N_2 . RDMOSU. FTCU.