Form 3160-5
November 1983)
Formerly 9-331)

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

## 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)

RECEIVED
JAN 02 1986
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 990' FNL, 890' FEL

5. LEASE DESIGNATION AND SERIAL NO.: SF-077123

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Warren LS

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Blanco Mesaverde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T28N R9W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5131' DF

12. COUNTY OR PARISH: San Juan

13. STATE: NM

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| TEST WATER SHUT-OFF | ☐ | PULL OR ALTER CASING | ☐ | WATER SHUT-OFF | ☐ | REPAIRING WELL | ☐ |
| FRACTURE TREAT | ☐ | MULTIPLE COMPLETE | ☐ | FRACTURE TREATMENT | ☐ | ALTERING CASING | ☐ |
| SHOOT OR ACIDIZE | ☐ | ABANDON* | ☐ | SHOOTING OR ACIDIZING | ☐ | ABANDONMENT* | ☐ |
| REPAIR WELL | ☐ | CHANGE PLANS | ☐ | (Other) | | | |
| (Other) Sidetrack | | | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | | | |

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 sidetrack, run casing and recomplete the referenced well according to the attached detailed procedure.

RECEIVED
JAN 07 1986
OIL CON. DIV.
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED Scott McKinney TITLE Senior Regulatory Analyst DATE 12/27/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE JAN 03 1986

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
for
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

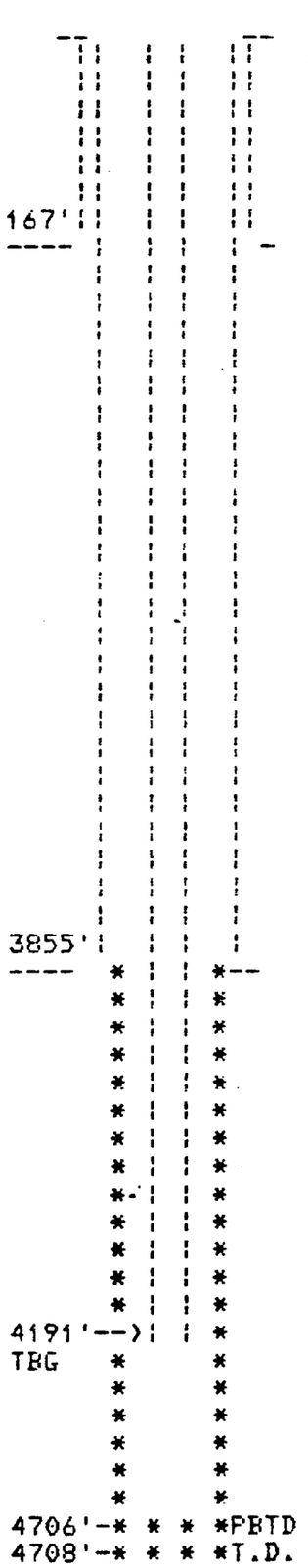
*See Instructions on Reverse Side

NMOCC

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

LEASE__ WARREN LS _____

WELL NO.____ 1 _____




CASING:
=======

10-3/4"OD, 32.75_LB, _H-40_CSG.W/ _____ 150 ____SX

TOC @ SURFACE. HOLE SIZE_13-3/4", DATE_ 10-05-'51_.

REMARKS:__CIRCULATED CEMENT TO SURFACE.

___7__"OD,__ 20 _LB,__J-55_CSG.W/_____ 200 _____SX

TOC: __2,805'_, HOLE SIZE_8-3/4", DATE _10-20-'51__.

REMARKS:__ TOP OF CMT @ 2,805' BY TEMPERATURE SURVEY.

OPEN HOLE:
========== FROM:_ 3855'__,W/TOTAL DEPTH @__ 4708'_.

HOLE SIZE 6-1/4", DATE _12-02-'51 __.

REMARKS:_ SHOT OPEN-HOLE FROM 3920' TO 4706' W/1500
QUARTS OF SNG.

TUBING: LONG STRING, SHORT STRING
---

_1-1/2"OD,_2.75_LB,_J-55_GRADE,_ 10 _RD,__N/A__CPLG

LANDED @__ 4191'_. SN, PACKER, ETC._____N/A_____.

__N/A_"OD,__N/A_LB,_N/A_GRADE,_N/A_RD,___N/A__CPLG

LANDED @__N/A____. SN, PACKER, ETC._____N/A_____.

DETAILED PROCEDURE:

1. BLADE LOCATION AND INSTALL ANCHORS IF NECESSARY.
INSTALL BLOW DN LINES AND START WELL BLOWING DN.

2. MIRURT. KILL W/1% KCL WTR IF NECESSARY. NDWH
AND NUBOP.

3. POOH W/ 1-1/2 TBG LAYING DN. DO NOT PULL OVER
20,000#, RECORDS INDICATE THAT THE TBG IS 1.9"
2.75# J-55 NUE HAVING A YIELD STRENGTH OF 26,250
PSIG. THIS TBG HAS BEEN IN SERVICE SINCE 1951.

4. IF TBG IS STUCK AND CANNOT BE PULLED,
RIH ON WL W/A 1-1/2" 1.39" OD TBG JET CUTTER
AND MAKE FIRST CUT 100' BELOW THE 7" CSG SHOE
@ 3855'. POOH W/TBG.

5. PU A CMT RET. FOR 7" CSG ON 2-7/8" D.P. AND RIH
TO 3705', 150' ABOVE THE 7" CSG SHOE & SET.

6. LOAD THE ANNULUS W/WTR & PT THE RET. & CSG TO 750 PSIG. PU ON THE D.P. AND PT THE 2-7/8" D.P. TO 1500 PSIG. STING OUT OF THE RET. & EST REVERSE CIRCULATION. STING BACK INTO RET. AND EST INJECTION RATE & PRESSURE INTO OPEN HOLE.

7. SQUEEZE OPEN-HOLE W/300 SXS OF CLASS "B" CMT CONTAINING 1% CACL2. STING OUT OF RET & REVERSE D.P. CLEAN. POOH W/THE 2-7/8" D.P. & STINGER.

8. NDBOP & TBG HEAD. NU A 10" 2000# X 10" 2000# CSG SPOOL. NOTE: THE SPOOL MUST BE DOUBLE DRILLED TO MATCH UP TO THE 10" 400 SERIES BRADEN HEAD. NU THE BOP & PT THE CSG SPOOL & STACK TO 2000 PSIG.

9. RIH W/A 6-1/4" BIT AND 6-8 DC'S. UNLOAD HOLE W/ N2 & DRILL OUT CMT RET. DRESS OFF THE OPEN HOLE PLUG 15' BELOW THE 7" CSG SHOE AT 3855'. BLOW HOLE CLEAN AND POOH.

10. RU TO DRILL AHEAD W/GAS. PU A KNUCLE JOINT KICK-OFF ASSBLY & RIH. MAKE KICK OFF AND BUILD ANGLE RUN, SURVEY AS REQUIRED.

11. POOH W/DRILL STRING & LAY DN KNUCKLE JOINT. RU TO DRILL W/AIR. RIH W/A 6-1/4" BIT, 6-8 4-3/4" DC'S & DP. DRILL AHEAD TO TD W/AIR OR FOAM, IF NECESSARY. POOH FOR LOGS.

12. MIRUWL. RUN GR-DIL & GR-CDL-CALIPER LOGS OVER THE ENTIRE OPEN HOLE SECTION. TIH W/DRILL STRING TO TD, BLOW THE HOLE CLEAN & POOH LAYING DN.

13. RU & RIH W/A STRING OF 4-1/2" 10.5# K-55 STC CSG AS FOLLOWS: GUIDE SHOE, FLOAT COLLAR 1 JT OFF BOTTOM & 3 CSG CENTRALIZERS.

14. CMT AS FOLLOWS: PUMP 10 BBLS OF MUD FLUSH FOLLOWED BY SUFFICIENT VOLUME OF 50/50 POZMIX CONTAINING 1/4# PER SX FLOCELE TO RAISE TOC TO +/- 2855'.

15. SET SLIPS W/FULL CSG WEIGHT. NDBOP AND CUT OFF CSG STUB. NU A 10" 2000# X 6" 3000# TBG HEAD.

16. LOAD THE 4-1/2' X 7" ANNULUS W/CORROSION INHIBITED WATER AND PT TO 1000 PSIG. RDMORT.

17. MIRUSU & NUBOP.

18. PU A 3-7/8" BIT ON 2-3/8" TBG AND TALLEY IN HOLE. TAG PBTD & DO IF NECESSARY. CIRCULATE HOLE CLEAN. PT TO 3500 PSIG & DISPLACE HOLE W/ 1% KCL WTR.

19. PUH W/THE 2-3/8" TBG TO THE BOTTOM MV PERF & SPOT 500 GAL OF 7-1/2% DI HCL ACID ACROSS THE MESEVERDE PERFORATIONS. POOH W/ THE BIT & TBG.

20. MIRUWL. RUN A GR-CCL CORRELATION LOG FROM PBTD UP 150' ABOVE THE HIGHEST MESAVERDE PAY. PERFORATE THE POINT LOOKOUT MEMBER OF THE MV USING 3-1/8" HOLLOW CARRIER CSG GUNS HAVING 2 JSPF & 120 DEGREE PHASING.

21. ACIDIZE THE POINT LOOKOUT DN CSG W/20 GALS/PERF OF 15% HCL CONTAINING 600# NACL/1000 GALS & 50% EXCESS 7/8" 1.1 S.G. RCN SLR BALLS. PUMP @ MAX RATE W/MAX STP 3500 PSIG.

22. ROUND TRIP WL JUNK BASKET TO PBTD.

23. FRACTURE STIMULATE THE MV-PT. LOOKOUT DN CSG WITH 1% KCL WTR W/FRICTION REDUCER & 2500#/FT OF 20/40 SD. PUMP JOB AT A RATE OF 2 BPM/FT OF PERFORATED PAY. DESIGN AS FOLLOWS:

SAND VOL: 2500# 20/40 SD X NET FT OF PAY PERF'D.
RATE: 2 BPM X NET FT OF PAY PERF'D.
FLUID: 1% KCL WTR CONTAINING FRICTION REDUCER.

PUMP SCHEDULE
==========

30% OF TOTAL FLUID VOLUME FOR PAD.
2 CSG VOLUMES OF 1/2 PPG SAND.
2 CSG VOLUMES OF 1 PPG SAND.
2 CSG VOLUMES OF 1-1/2 PPG SAND.
REMAINING SAND @ 2 PPG SAND.

24. FLUSH SHY OF TOP PERF AND CLOSE RAMS ASAP IF WELL GOES ON VACUUM. IF POSITIVE PRESSURE EXISTS RECORD 5, 10 & 15 MINUTE SIP & THEN CLOSE RAMS.

25. RIH ON WL W/A 4-1/2" WL SET RBP. SET THE RBP ABOVE THE TOP PERF AND BELOW THE BOTTOM PERF OF MESAVERDE-MENEFEE INTERAVAL. DUMP 2 SXS SD ON THE RBP, LOAD THE HOLE W/1% KCL WTR AND PT TO 3500 PSIG.

26. RIH W/THE 2-3/8" TBG TO THE BOTTOM PERFORATION DEPTH OF THE NEXT MV-MEMBER & SPOT 500 GAL OF DI 7-1/2% HCL ACID ACROSS THE MV-MENEFEE INTERVAL. POOH W/THE 2-3/8" TBG STRING.

27. PERFORATE THE MENEFEE MEMBER OF THE MV USING 3-1/8" HOLLOW CARRIER CSG GUNS HAVING 2 JSPF & 120 DEGREE PHASING PER GEOLOGICAL ENGINEERING'S RECOMMENDATION.

28. ACIDIZE THE MENEFEE DN CSG W/20 GALS/PERF OF 15% HCL CONTAINING 600# NACL/1000 GALS & 50% EXCESS 7/8" 1.1 S.G. RCN SLR BALLS. PUMP @ MAX RATE W/MAX STP 3500 PSIG.

29. ROUND TRIP WL JUNK BASKET TO PBTD.

30. FRACTURE STIMULATE THE MV-MENEFEE DN CSG WITH 1% KCL WTR W/FRICTION REDUCER & 2500#/FT OF 20/40 SD. PUMP JOB AT A RATE OF 2 BPM/FT OF PERFORATED PAY. DESIGN AS FOLLOWS:

SAND VOL: 2500# 20/40 SD X NET FT OF PAY PERF'D.
RATE: 2 BPM X NET FT OF PAY PERF'D.
FLUID: 1% KCL WTR CONTAINING FRICTION REDUCER.

PUMP SCHEDULE
==========

30% OF TOTAL FLUID VOLUME FOR PAD.
2 CSG VOLUMES OF 1/2 PPG SAND.
2 CSG VOLUMES OF 1 PPG SAND.
2 CSG VOLUMES OF 1-1/2 PPG SAND.
REMAINING SAND @ 2 PPG SAND.

31. FLUSH SHY OF TOP PERF AND CLOSE RAMS ASAP IF WELL GOES ON VACUUM. IF POSITIVE PRESSURE EXISTS RECORD 5, 10 & 15 MINUTE SIP & THEN CLOSE RAMS.

32. RIH ON WL W/A 4-1/2" WL SET RBP. SET THE RBP ABOVE THE TOP PERF AND BELOW THE BOTTOM PERF OF MESAVERDE-CLIFF HOUSE INTERVAL DUMP 2 SXS SD ON THE RBP, LOAD THE HOLE W/1% KCL WTR AND PT TO 3500 PSIG.

33. RIH W/THE 2-3/8" TBG TO THE BOTTOM PERFORATION DEPTH OF THE UPPER MV-MEMBER & SPOT 500 GAL OF DI 7-1/2% HCL ACID ACROSS THE MV-CLIFF HOUSE INTERVAL. POOH W/THE 2-3/8" TBG STRING.

34. PERFORATE THE CLIFF HOUSE MEMBER OF THE MV USING 3-1/8" HOLLOW CARRIER CSG GUNS HAVING 2 JSPF & 120 DEGREE PHASING PER GEOLOGICAL ENGINEERING'S RECOMMENDATION.

35. ACIDIZE THE CLIFF HOUSE DN CSG W/20 GALS/PERF OF 15% HCL CONTAINING 600# NACL/1000 GALS & 50% EXCESS 7/8" 1.1 S.G. RCN SLR BALLS. PUMP @ MAX RATE W/MAX STP 3500 PSIG.

36. ROUND TRIP WL JUNK BASKET TO PBTD.

37. FRACTURE STIMULATE THE MV-CLIFF HOUSE DN CSG WITH 1% KCL WTR W/FRICTION REDUCER & 2500#/FT OF 20/40 SD. PUMP JOB AT A RATE OF 2 BPM/FT OF PERFORATED PAY. DESIGN AS FOLLOWS:

SAND VOL: 2500# 20/40 SD X NET FT OF PAY PERF'D.
RATE: 2 BPM X NET FT OF PAY PERF'D.
FLUID: 1% KCL WTR CONTAINING FRICTION REDUCER.

PUMP SCHEDULE
==========

30% OF TOTAL FLUID VOLUME FOR PAD.
2 CSG VOLUMES OF 1/2 PPG SAND.
2 CSG VOLUMES OF 1 PPG SAND.
2 CSG VOLUMES OF 1-1/2 PPG SAND.
REMAINING SAND @ 2 PPG SAND.

38. FLUSH SHY OF TOP PERF AND CLOSE RAMS ASAP IF WELL GOES ON VACUUM. IF POSITIVE PRESSURE EXISTS RECORD 5, 10 & 15 MINUTE SIP & THEN CLOSE RAMS.

39. RIH W/A RET. HEAD ON 2-3/8" TBG & CO W/N2-FOAM TO RBP. LATCH INTO RBP, LET EQUALIZE & POOH.

40. RIH W/A RET. HEAD ON 2-3/8" TBG & CO W/N2-FOAM TO RBP. LATCH INTO RBP, LET EQUALIZE & POOH.

41. RIH W/THE 2-3/8" TBG OPEN-ENDED W/A SN 1 JT OFF BOTTOM AND CO TO PBTD W/N2-FOAM. PUH W/THE TBG AND LAND W/THE BOTTOM 20' ABOVE THE BOTTOM MESAVERDE PERFORATION.

42. KILL THE TBG, NDBOP & NUWH. KICK THE TBG AROUND W/N2 AND FTCU.

43. RDMOSU.

Frank G. Weiss III

FRANK G. WEISS III
SENIOR PRODUCTION ENGINEER