

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse 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 24 1986

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155 BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1770' FSL, 1840' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

5850' GL

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.

5A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC., T., R., M., OR BLM. AND
SURVEY OR AREA

Sec. 24, T28N-R9W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 perti-
nent to this work.)*

Tenneco requests permission to add pay to the Mesaverde zone and dual to the
Pictured Cliffs according to the attached detailed procedure.

Need 1. NMOC approval of final Completion
2. acreage dedication plat for P.C.

RECEIVED

JAN 28 1986

OIL CON. DIV.
DIST. 3

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

SIGNED

TITLE Senior Regulatory Analyst

DATE 1-20-86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

JAN 27 1986

M. MILLENBACH
AREA MANAGER

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations. (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2). (3) Analyze future applications to drill or modify operations in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

LEASE__ WARREN LS ____

WELL NO.____ 5A _____

CASING:

=====

_9-5/8"OD, __36__LB, __K55_CSG.W/ _____ 190 ____SX

TOC @ SURFACE. HOLE SIZE_12-1/4", DATE_11-06-'81__.

REMARKS: __CIRCULATED 10 BBLs CMT TO SURFACE.

____7____"OD, __ 20 __LB, __K-55_CSG.W/_______ 290 ____SX

TOC: _700' _____, HOLE SIZE_8-3/4", DATE _11-09-'81__.

REMARKS: TOP OF CEMENT @ 700' BY TEMPERATURE SURVEY.

LINER:

===== TOL: @_ 2361' __, W/BOTTOM SET @__ 4863' __.

_4-1/2"OD, __10.5 LB, _ K-55 CSG.W/_______ 315 SXS.

TOC @_ TOL __, HOLE SIZE 6-1/4", DATE _11-13-'81__.

(2361')

REMARKS: _ REVERSED OUT 10 BBLs PREFLUSH BUT NO CMT.
MARKER JOINT SET @ 3665'.

TUBING: LONG STRING, SHORT STRING

____2-3/8"OD, __4.7 LB, _J-55_GRADE, _____RD, _____CPLG

LANDED @__ 4791'_. SN, PACKER, ETC._S/N 1 JT OFF
BOTTOM.

____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. MIRUSU. INSTALL BOP. RIH W/TBG & TAG.
FILL. TALLEY OUT OF HOLE W/TBG.
2. IF NECESSARY RIH W/2-3/8" TBG OPEN-ENDED & CO
FILL TO PSTD W/N2-FOAM. POOH W/2-3/8" TBG.
3. RIH W/A 4-1/2" FULLBORE PKR ON 2-3/8" TBG TO
4330' AND SET. LOAD THE ANNULUS W/1% KCL WTR &
PT THE LINER LAP AND CASING TO 3000 PSIG. POOH.
4. MIRUWL. RUN A GR-CCL CORRELATION LOG FROM PSTD
TO 4000' IN THE 4 1/2" LINER.

230'

2361'

2507'

4336'

(MV)

4816'

4846'

4-6

5. RE-PERFORATE THE MESAVERDE W/3-1/8" HOLLOW CARRIER CSG GUNS, & 120 DEGREE PHASING IN THE FOLLOWING INTERVALS:

POINT LOOKOUT

=====

4424'-40'	16'	1JSPP	4526'-30'	4'	2JSPP
4450'-54'	4'	2JSPP	4561'-64'	3'	2JSPP
4482'-92'	10'	2JSPP	4582'-86'	4'	2JSPP
4512'-16'	4'	1JSPP	4594'-98'	4'	2JSPP
4520'-24'	4'	1JSPP	4650'-54'	4'	2JSPP

TOTAL: 57'-90 HOLES

6. ESTABLISH RATE W/1% KCL WATER. SHUT DOWN FOR ISIF.
7. ACIDIZE W/1800 GALS 15% HCL CONTAINING 600# NACL/1000 GAL, 135 7/8" 1.1 S.G. RCN SLR BALLS DOWN CASING. PUMP @ MAX RATE W/MAX STF 3000 PSIG
8. ROUNDRIP WL JUNK BASKET TO PBTD.
9. FRAC THE MESAVERDE DOWN CASING W/1% KCL WTR CONTAINING FRICTION REDUCER AND 20/40 SAND AS FOLLOWS: RATE 80-100 BPM
-
- | VOLUME | SAND CONC. | CUM SD. PUMPED |
|---|------------|-----------------|
| ===== | ===== | ===== |
| 32,500 GAL | PAD | -0- |
| 11,000 GAL | 1/2 FPG | 6,250 # 20/40 |
| 11,000 GAL | 1 FPG | 18,750 # 20/40 |
| 11,000 GAL | 1-1/2 FPG | 37,500 # 20/40 |
| 38,250 GAL | 2 FPG | 114,000 # 20/40 |
| JOB TOTALS: 108,250 GAL SLICK WTR; 114,000 #20/40 | | |
10. FLUSH SHY OF PERFS AND CLOSE RAMS ASAP IF WELL GOES ON VACUUM. IF POSITIVE PRESSURE EXISTS RECORD 5, 10, & 15 MINUTE SIP THEN SI RAMS.
11. RIH W/A 4-1/2" RBP ON WL & SET @ 4400'. DUMP 2 SXS SD ON RBP AND FOLLOW W/10 BBLs 1% KCL WTR.
12. RE-PERFORATE AND ADD PAY IN THE MESAVERDE-MENEFEE MEMBER USING 3-1/8" HOLLOW CARRIER CASING GUNS W/ 2 JSPP & 120 DEGREE PHASING IN THE FOLLOWING INTERVALS:

MENEFEE

=====

4124'-28'	4'	4254'-56'	2'
4133'-38'	5'	4268'-70'	2'
4148'-58'	10'	4284'-86'	2'
4181'-86'	5'	4330'-43'	13'
4212'-18'	6'	4346'-52'	6'

TOTAL: 55'-110 HOLES

13. ESTABLISH RATE W/1% KCL WATER. SHUT DOWN FOR

14. ACIDIZE W/2200 GALS 15% HCL CONTAINING 600#
NACL/1000 GAL, 165 7/8" 1.1 S.G. RCN SLR BALLS
DOWN CASING. PUMP @ MAX RATE W/MAX STP 3000 PSIG

15. ROUNDTrip WL JUNK BASKET TO PBTd.

16. FRAC THE MESAVERDE DOWN CASING W/1% KCL WTR
CONTAINING FRICTION REDUCER AND 20/40 SAND
AS FOLLOWS: RATE 80-100 BPM

VOLUME =====	SAND CONC. =====	CUM SD. PUMPED =====
31,000 GAL	FAD	-0-
11,000 GAL	1/2 PFG	5,500 ± 20/40
11,000 GAL	1 PFG	16,500 ± 20/40
11,000 GAL	1-1/2 PFG	33,000 ± 20/40
38,500 GAL	2 PFG	110,000 ± 20/40
JOB TOTALS: 102,500 GAL SLICK WTR; 110,000 ± 20/40		

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

18. RIH ON 2-3/8" TBG W/A RET HEAD AND CO TO THE
RBP. LATCH RBP, LET EQUALIZE AND POOH.

19. RIH W/THE 2-3/8" TBG OPEN-ENDED AND CO TO PBTd
W/N2-FOAM. PUH W/THE TBG TO 4550' AND LAND.
KICK THE TBG AROUND W/N2 AND FTCU UNTIL CLEAN.

20. RIH W/THE 2-3/8" TBG AND CHECK FOR FILL, CO W/
N2-FOAM IF NECESSARY AND POOH W/THE 2-3/8" TBG.

21. RIH ON WL W/A 7" MOD "D" PRODUCTION PKR W/EXP
PLUG IN PLACE AND SET AT 2355'. DUMP 2 SXS SD
ON MOD "D", LOAD THE HOLE W/2% KCL WTR & PT TO
3000 PSIG.

22. RUN A GR-CCL-CNL LOG FROM PBTd UP TO 1800' &
TELECOPY TO DENVER FOR PERFORATION SELECTION.

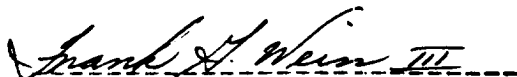
23. NDBOP AND INSTALL A 6"-2000# X 6"-2000# UA TBG
HEAD ATTACHMENT SPOOL. NUBOP & PT TO 3000 PSIG.

24. RIH W/2-3/8" TBG TO BOTTOM PICTURED CLIFFS PERF
& SPOT 250 GAL OF DI 7-1/2% HCL ACROSS THE P.C.
PERFORATIONS. POOH W/THE 2-3/8" TBG.

25. PERFORATE THE PICTURED CLIFFS PER DENVERS
INSTRUCTIONS USING 4" HOLLOW CARRIER CSG GUNS W/
2 JSPF & 120 DEGREE PHASING.

26. RIH W/A 7" FULLBORE PKR ON 2-3/8" TBG & SET 250'
ABOVE THE BOT P.C. PERFORATION. LOAD THE ANNULUS
W/2% KCL WTR AND PT TO 1500 PSIG. BLEED OFF TO
500 PSIG AND MONITOR FOR COMMUNICATION DURING
ACID JOB.

27. ACIDIZE DN TBG W/20 GALS/PERF 15% HCL WITH 600# NACL/1000 GAL & 50% EXCESS 7/8" 1.1 S.G. RCN SLR BALLS. PUMP @ MAX RATE W/MAX STP 3000 PSIG OVERDISPLACE ACID 2 BBLs PAST BOTTOM PERF.
28. RELEASE PKR, RIH PAST PERFS TO KNOCK BALLS OFF. PUH W/PKR 1 STAND ABOVE TOP PERF & BLOW HOLE DRY GOING DN TBG & UP THE ANNULUS W/N2. POOH W/THE 2-3/8" TBG & PKR.
29. FOAM FRAC THE PICTURED CLIFFS DN CSG W/70% Q N2-FOAM. ALL FLUID TO BE 2% KCL WTR W/20#PER 1000 GAL GEL. DENVER WILL PROVIDE THE JOB DESIGN WITH RATES AND VOLUMES AFTER THE P.C. PERFORATIONS HAVE BEEN DEFINED BY GEOLOGICAL ENGINEERING.
30. SI FOR 2 HRS AND FTCU OVERNITE THROUGH A 1/2" TAPPED BULL PLUG.
31. RIH W/LONG STG OF 2-3/8" TBG W/A MULE SHOE JT ON BTM, SN 1 JT OFF BOTTOM, EXP CHECK, SEAL ASSBLY AND BLAST JTS.
32. CO TO MOD "D" SET @ 2355', KNOCK OUT PLUG AND RIH W/REMAINDER OF 2-3/8" TBG, SPACING OUT SEAL ASSBLY AND BLAST JTS SO THAT THE TBG IS LANDED @ +/- 4600'.
33. PU SHORT STRING OF 1-1/4" TBG W/BEVELED COLLARS AN ORANGE PEELED, PERFORATED SUB ON BTM, SN 1 JT OFF BTM & EXP PLUG IN PLACE. RIH AND LAND BTM OF TBG 2/3 INTO THE PICTURED CLIFFS PERFORATIONS.
34. NDBOP AND NU DUAL WELLHEAD.
35. LOAD LONG STRING HALF FULL W/ 1% KCL WTR, DROP STEEL BALL AND PUMP OUT EXP CHECK W/N2. FTCU.
36. PUMP OUT EXP. PLUG FROM SHORT STRING. KICK AROUND W/N2 AND FTCU.
37. RDMOSU.


FRANK G. WEISS III
SENIOR PRODUCTION ENGINEER