

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Docket Bureau No. 1004-0135
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

SF-080000

7. IF APPLICABLE, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. NAME OF LEASEE NAME

Florance

10. WELL NO.

27A

11. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

12. SEC., T., R., N., OR ENE. AND
CORNER OR AREA

Sec. 26, T29N, R9W

13. COUNTY OR PARISH

San Juan

14. STATE

NM

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.)

OIL WELL ☐ GAS WELL ☒ OTHER

1. NAME OF OPERATOR

Tenneco Oil Company

2. ADDRESS OF OPERATOR

P. O. Box 3249, Englewood, CO 80155

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

At surface

1455' FNL, 945' FWL

RECEIVED

SEP 14 1984

16. PERMIT NO.

15. ELEVATIONS (Show whether EF, ST, CR, etc.)

5819' GL BUREAU OF LAND MANAGEMENT
WASHINGTON RESOURCE AREA

18.

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

FOR THE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ALIGN

REPAIR WELL

(Other) Recompletion - Fruitland Coal

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

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 dual the above referenced well by recompleting in the
Fruitland coal formation according to the attached detailed procedure.

Need NRC approval to dually complete
prior to commencement of proposed operations

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

SIGNED

TITLE Sr. Regulatory Analyst

APPROVED
8/20/84

(This space for Federal or State office use)

APPROVED BY

TITLE

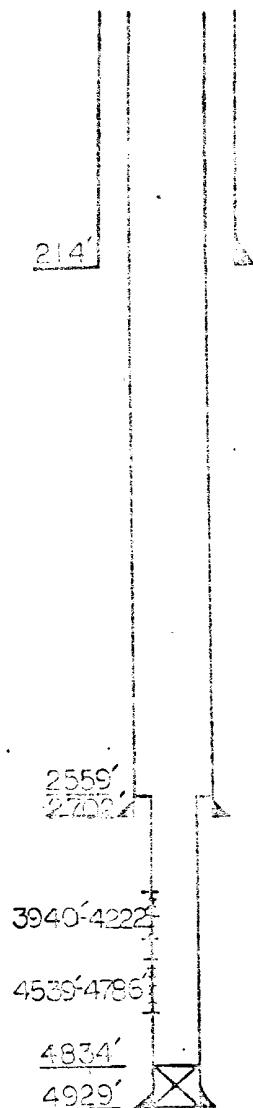
SEP 18 1984

DATE
M. MILLENDACH
AREA MANAGER

CONDITIONS OF APPROVAL, IF ANY:

AM800

*See Instructions on Reverse Side



LEASE Florance

WELL NO. 27A

9-5/8 "OD, 36 LB, K-55 CSG.W/ 225 SX

TOC @ Surface _____

7 "OD, 23 LB, K-55 CSG.W/ 375 SX

TOC @ Surface _____

4-1/2 "OD, 10.5 LB, K-55 CSG.W/ 225 SX

TOC @ 2559'

DETAILED PROCEDURE:

1. MIFUSU. Kill Mesaverde w/ 1% KCl water. Remove WH and install BOP. RIH w/ tbg & tag PSTD.
2. CO w/ foam if necessary.
3. RIH on WL w/ a 7" Model "D" w/ EXP plug in place. Set pkr @ 2520' and dump 1 sx sand on pkr.
4. Load hole w/ 1% KCl water and PT csg and pkr to 3000 psi.
5. Run Gamma Ray-Neutron log from 2520' to 214'. (Telecopy results to Denver.)
6. Replace single WH w/a dual WH.
7. Perforate Lower Fruitland Coal as per Geological Engineering recommendation using 2 JSBF in 4" hollow carrier casing guns w/ premium charges.

Approximately 25' of coal is anticipated.

8. RIH w/ 7" pkr and SW on tbg and set pkr \pm 75' above top perforation. Load Annulus and PT pkr to 1500 psi.
9. Establish inj rate w/ 1% KCl water into perfs.
10. Acidize w/ 20 gals wgt'd 15% HCl per perforation containing 50% excess ball sealers. FTCU. Swab in if necessary and flow test. Release pkr. RIH past perfs & POOH w/pkr & tbg.
11. Foam frac Lower Fruitland Coal dn csg using 70% quality foamed 1% KCl wtr. Rate: 20 BPM w/max STP 3000 psig.

Treat as follows:

<u>Foam Vol</u>	<u>Prop Conc</u>	<u>Cum Prop</u>
12,000 gal	PAD	0
8,000 gal	.5	4,000
10,000 gal	1	14,000
10,000 gal	2	34,000
10,000 gal	3	64,000

JOB TOTALS: 50,000 gal 70% quality foam and 64,000 #20/40 sand.

12. SI for 2 hours. FTCU through a 1/2" tapped bull plug.
13. RIH w/tbg & clean out to PSTD w/N₂ foam. PUH w/tbg & land @ \pm btm perf.
14. FTCU & test lower Fruitland Coal. POCH
15. MIFUSU. RIH w/a 7" RBP & set between the upper and lower Fruitland Coal zones. Dump 1 sx sd on RBP. Load annulus w/1% KCl wtr & PT csg and RBP to 3000 psi.

LEASE FloranceWELL NO. 27A9-5/8 "OD, 36 LB, K-55 CSG.W/ 225 SX

TOC @ Surface

7 "OD, 23 LB, K-55 CSG.W/ 375 SX

TOC @ surface.

4-1/2 "OD, 10.5 LB, K-55 CSG.W/ 225 SXTOC @ 2559'DETAILED PROCEDURE (CONTINUED):

16. Perforate upper Fruitland Coal as per Geological Engineering recommendation using 2 JSPF in 4" hollow carrier casing guns w/ premium charges.

Approximately 25' of Coal is anticipated

17. RIH w/7" pkr and SN on tbg & set pkr \pm 75' above top perforation. Load annulus and PT pkr to 1500 psi.
18. Establish inj rate w/1% KCl water into perfs. Acidized w/20 gals wgt'd 15% HCl per perforation containing 50% excess ball sealers. FTCU. Swab in if necessary and flow test. Release pkr. RIH past perfs & POOH w/pkr & tbg.
19. Foam frac upper Fruitland Coal on csg using 70% quality foamed 1% KCl wtr. Rate: 20 BPM w/max STP 3000 psig.

Treat as follows:

Foam Vol	Prop Conc	Cum Prop
12,000 gal	PAO	0
8,000 gal	.5	4,000
10,000 gal	1	14,000
10,000 gal	2	34,000
10,000 gal	3	64,000

Job Total: 50,000 gal 70% quality foam and 64,000 # 20/40 sd.

20. SI for 2 hrs. FTCU thru a 1/2" tapped bull plug.
21. RIH w/tbg & retrieving head. CO to RBP. PUH w/tbg & land tbg @ \pm btm perf.
22. FTCU & test upper Fruitland Coal.
23. RIH w/tbg & retrieving head to RBP. CO w/N₂ foam if necessary. Latch RBP and POOH.
24. RIH w/2-3/8" long string w/sealassy, blast jts, S/N & pump thru expendable check.
25. CO to Model "D" w/N₂ foam and knock out exp plug in pkr.
26. Land tbg @ \pm 4750'.
27. RIH w/short string of 2-3/8" tbg w/SN 4' perforated, orange peeled sub and pmp out plug.
28. Land short string @ \pm btm Fruitland Coal perf.
29. DDSCPE and NUWH.
30. Drop ball and pump out long string exp check. Return MV to prod. Swab if necessary.
31. Pump out short string plug, kick around w/N₂.
32. Flow Fruitland Coal to clean up. SI for AOF.

214'

2559'

3940'-4222'

4539'-4736'

4834'

4828'

APPLICATION FOR MULTIPLE COMPLETION

Tenneco Oil Company San Juan 12/05/84
Operator County Date
P. O. Box 3249, Englewood, CO 80155 Florance 27A
Address Lease Well No.
E 26 29N 9W
Location Unit Section Township Range
of Well

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DEC 10 1984
OIL CON. DIV.
DIST. 3

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blanco Fruitland ext Fruitland Coal		Blanco Mesaverde Mesaverde
b. Top and Bottom of Pay Section (Perforations)	2042-2261' KB		3040-4786' KB
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production <input type="checkbox"/> Actual <input checked="" type="checkbox"/> Estimated Oil Bbls. Gas MCF Water Bbls.	948 MCF/D		627 MCF/D

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Scott McKinnis Title Sr. Regulatory Analyst Date 12/05/84

(This space for State Use)

Approved by Original Signed by FRANK T. CHAVEZ Title SUPERVISOR DISTRICT #3 Date DEC 10 1984

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

LEASE Florange

WELL NO. 27A

9518" "OD, 36 LB, CSG.W/ 225 SX

TOC @ _____.

2042' 7" "OD, 23 LB, CSG.W/ 375 SX

TOC @ _____.

2190'

2245'

DETAILED PROCEDURE

FRUITLAND COAL

2261'

2516'

MODEL D PACKER

2950' TOL

REC'D

DEC 10 1984

OIL CON. DIV.
DIST. 3

2702'

LEASE Florange

WELL NO. 27A

9 5/8" OD, 36 LB, CSG.W/ 225 SX

TOC # _____

2042' 7" OD, 23 LB, CSG.W/ 375 SX

TOC # _____

DETAILED PROCEDURE
FRUITLAND COAL

MODEL D PACKER

4 1/2" CASING LINER

MESAVERDE

DEC 10 1984
OIL CON. DIV.
DIST. 3