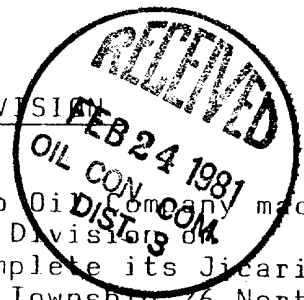


THE APPLICATION OF TENNECO OIL
COMPANY FOR A DUAL COMPLETION

ORDER NO. MC-2759

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION



Under the provisions of Rule 112-A, Tenneco Oil Company made application to the New Mexico Oil Conservation Division on November 12, 1980, for permission to dually complete its Jicarilla C Well No. 2E located in Unit I of Section 14, Township 26 North, Range 5 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Mesaverde formation adjacent to the Blanco Mesaverde Pool and from the Basin-Dakota Pool.

Now, on this 2nd day of December, 1980, the Division Director finds:

1. That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulations;
2. That satisfactory information has been provided that all operators of offset acreage have been duly notified;
3. That no objections have been received within the waiting period as prescribed by said rule;
4. That the proposed dual completion will not cause waste nor impair correlative rights; and
5. That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, Tenneco Oil Company, be and the same is hereby authorized to dually complete its Jicarilla C Well No. 2E located in Unit I of Section 14, Township 26 North, Range 5 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Mesaverde formation adjacent to the Blanco-Mesaverde Pool and from the Basin-Dakota Pool through parallel strings of tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMCY
Division Director

OIL CONSERVATION COMMISSION
Chetee DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE November 22, 1980

RE: Proposed MC a
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated November 10, 1980
for the Senneco Jimilla C #2E I-14-260-5w
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Frank J. Day

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator Tenneco Oil Company		County San Juan		Date 10/31/80
Address P.O. Box 3249, Englewood, Colorado 80155		Lease Jicarilla C		Well No. 2 E
Location of Well	Unit I	Section 14	Township 26N	Range 5W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES XX NO
2. If answer is yes, identify one such instance: Order No. R5707; Operator Lease, and Well No.: Jicarilla C-7

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Mesaverde		Dakota
b. Top and Bottom of Pay Section (Perforations)	4974-5295'		7484 - 7694'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

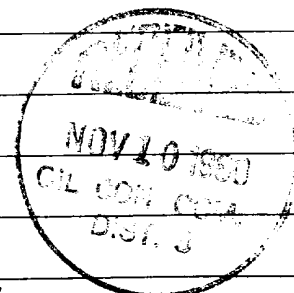
4. The following are attached. (Please check YES or NO)

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. 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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. 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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. 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.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Southern Union (Supron) Box 808 Farmington, New Mexico

Conoco 555 17th Street, Denver, Colorado 80202



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO . If answer is yes, give date of such notification 10/30/80.

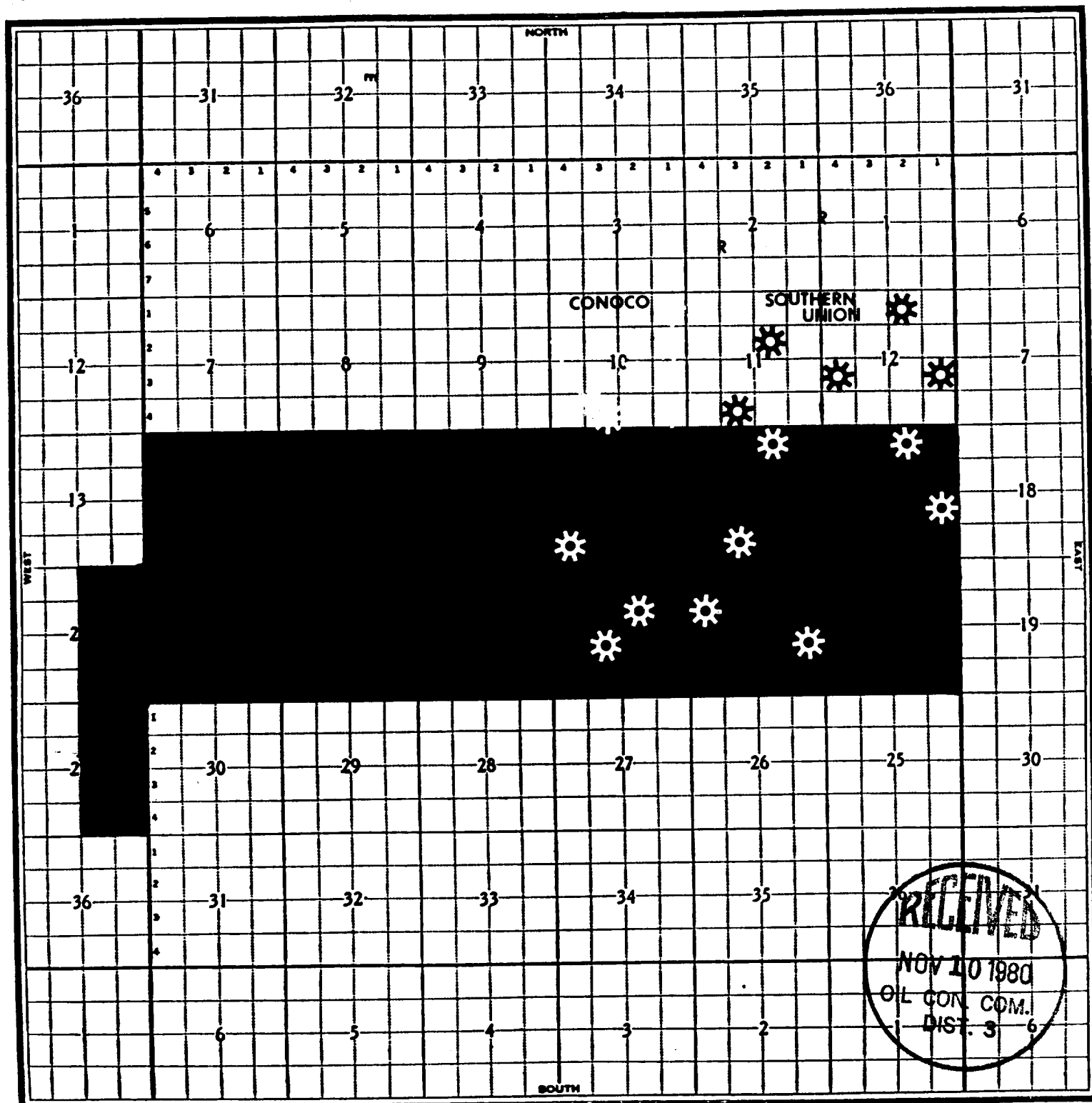
CERTIFICATE: I, the undersigned, state that I am the Asst. Div. Adm. Mgr. of the Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Carley J. Hatten
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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.

TOWNSHIP NO. 26N RANGE NO. 5W COUNTY SAN JUAN STATE NEW MEXICO



LEGEND ☐ ☐ ☐ ☐

SCALE, ONE INCH = ONE MILE

MESAVERDE

DAKOTA

 MESAVERDE / DAKOTA

JICARILLA C 2-E
Section 14, T26N, R5E
San Juan County, New Mexico

Southern Union (Supron)
Box 808
Farmington, New Mexico *7401

Conoco
555 - 17th Street
Denver, Colorado 80202



LEASE Jicarilla

WELL NO. C 2E

____ "OD, _____ LB, _____ CSG. W/ _____ SX
TOC @ _____.

____ "OD, _____ LB, _____ CSG. W/ _____ SX
TOC @ _____.

DETAILED PROCEDURE

18. Kill well w/ 2% KCl & POOH w/ tbg
19. Set a Model D pkr w/ expendable plug on wireline @ 5500'.
20. Drop 1 sk of sand on pkr.
21. Fill hole w/ 1% KCl & PT Pkr to 3000 psi.
22. RIH w/ tbg & spot 600 gals 7 1/2 % HCl from 4960 - 5300'. POOH w/ tbg.
23. Perforate Mesaverde using a 4" premium charge casing gun shooting 2 ISPF @:

4974-76

4981-83

5022-26

5049

5274-95

total of 30' = 60 holes.

24. Acidize dn csq w/ 1000 gals of 15% HCl and 60 balls.
25. RIH w/ 4 1/2" junk basket to knock off the balls.
26. FRAG dn csq w/ 1% KCl w/ tbg w/ friction reducer and 20/40 sand @ 90 RPM as follows

72.5 Bbl Flush

250 Bbl w/ 0.5 ppq 20/40

250 Bbl w/ 1.0 ppq 20/40

250 Bbl w/ 1.5 ppq 20/40

700 Bbl w/ 2.0 ppq 20/40

200 Bbl Flush

total 90,300 lbs 20/40

2375 Bbls w/ tbg

27. RIH w/ 2 3/8" tbg w/ beveled collars and foam sand off pkr. Snipple above Make shoe
28. Sting through pkr & Run tbg so that Make shoe is in the top of the Dakota perfs when seal is in Model D. Have Blast joints opposite MV perfs.
29. RIH 2 3/8" string w/ beveled collars for MV & Land @ ± 4975.
30. NDBOP, NUWH
31. Blow MV around w/ N₂ & swab in Dakota.
32. Flow to clean up.

NOV 10 1980

CON. COM.

DIST. 3

LEASE Jicarilla "C"

WELL NO. 2E

9-5/8 "OD, 36 LB, K-55 CSG.W/ 200 SX

TOC @ Surface

7 "OD, 23 LB, K-55 CSG.W/ 300/980' SX

TOC @ _____

4-1/2 "OD, 10.5&11.6 LB, K-55 CSG.W/ 250 SX

TOC @ _____

DETAILED PROCEDURE O. Run CBL over Mesaverde.

1. MIRUSU. Install BOP
2. DO to PBTD. Drill Shoe + 20'
3. Test csq to 3500 psi.
4. Circulate hole w/1% KCL water.
5. POOH w/tbg.
6. Run GR/CCL.
7. Perforate Dakota as follows w/3-1/8" premium charge csq gun using 2 JSPF:

7484-7490

7497-7499

7594-7612

7674-7694

total of 46' = 92 holes

8. RIH w/pkr & RBP w/ball catcher.

9. Acidize perms w/15% HCL as follows:

7674-7694

850 gals

60 balls

7594-7612

250 gals

54 balls

7484-7499

350 gals

24 balls

total of 1950 gals & 138 balls

10. POOH w/RBP & pkr.

11. Frac w/30# cross-linked gel in 1% KCL water as follows:

10,000 gal pad.

10,000 gal w/1 ppg 20/40 sand.

15,000 gal w/2 ppg 20/40 sand

5,000 gal w/2 ppg 10/20 sand

10,000 gal pad w/ 4/6 balls.

10,000 gal w/1 ppg 20/40 sand

15,000 gal w/2 ppg 20/40 sand

5,000 gal w/3 ppg 10/20 sand

Flush to top perf. Desired pressure = 3000psi.

Total sand: 80,000# 20/40

25,000# 10/20.

Total Gel: 80,000 gal.

12. SI overnight.

13. RIH w/tbg, S/N, & pump-out plug.

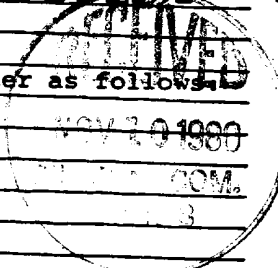
14. CO to PBTD w/foam.

15. Land tbg w/bottom of tbg in top set of perms.

16. Kick well around w/N₂.

17. Flow until clean-up.

18. ~~SI pending AOF.~~



Seals
Pup
Joint

Model
D

F-Nipple
Mole
Shoe

S/N

4974

5295

5500

5721

5900

7484

7694

7750

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

October 30, 1980

Southern Union (Supron)
Box 808 Farmington, New Mexico

Attention: Rudy D. Motto

RE: Jicarilla C-2E Sec 14, T26N, R5W
San Juan, New Mexico

Dear Mr. Motto:

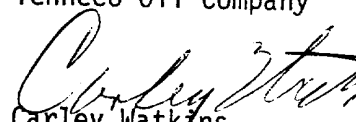
Please find attached copies of our Application for Multiple Completion which we are submitting to the New Mexico Oil Conservation Commission for the above referenced well.

If you, as an offset operator, have no objections to the multiple completion of the Mesaverde and Dakota formations of this well, please sign the waiver at the bottom of this page and send to:

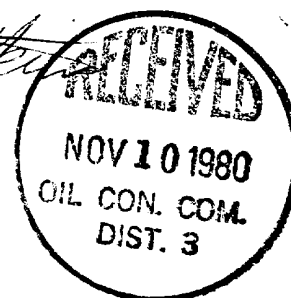
New Mexico Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501
Attn: Joe D. Ramey

We would appreciate your returning one executed copy to the undersigned.

Very truly yours,
Tenneco Oil Company


Carley Watkins
Assistant Division
Administrative Manager

CW/DM/so
Enclosures



W A I V E R

We hereby waive any objections to Tenneco Oil Company's Application for Multiple Completion as set forth above.

Name of Person, for (company)

Date

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

October 31, 1980

Conoco
555 17th Street
Denver, Colorado 80202

Attention: J.F. Greene

RE: Jicarilla C-2E-Sec 14, T26N, R5W
San Juan, New Mexico

Dear Mr. Greene:

Please find attached copies of our Application for Multiple Completion which we are submitting to the New Mexico Oil Conservation Commission for the above referenced well.

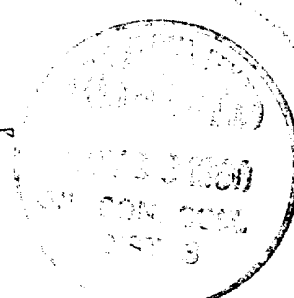
If you, as an offset operator, have no objections to the multiple completion of the Mesaverde and Dakota formations of this well, please sign the waiver at the bottom of this page and send to:

New Mexico Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501
Attn: Joe D. Ramey

We would appreciate your returning one executed copy to the undersigned.

Very truly yours,
Tenneco Oil Company

Carley Watkins
Carley Watkins
Assistant Division
Administrative Manager



CW/DM/so
ENClosures

W A I V E R

We hereby waive any objections to Tenneco Oil Company's Application for Multiple Completion as set forth above.

Name of Person, for (company)

Date

Tenneco Oil
Exploration and Production
A Tenneco Company



Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado

October 31, 1980

ARCO
717 17th Street, Suite 1201
Denver, Colorado 80217

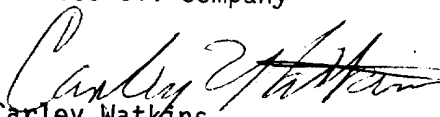
Attention: W. A. Walther Jr.

RE: Jicarilla C2E Sec. 14 T26N R5W
San Juan, New Mexico

Dear Mr. Walther:

Attached you will find copies of our Application for Multiple Completion including supportive information for the above referenced wells, filed with the New Mexico Oil Conservation Commission. If you should require any further information, do not hesitate to contact this office.

Very truly yours,
Tenneco Oil Company


Carley Watkins
Assistant Division
Administrative Manager

CW/DM/so

Enclosures

