

THE APPLICATION OF TENNECO
OIL COMPANY FOR A DUAL COMPLETION



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 17, 1980, for permission to dually complete its Omler A Well No. 7E located in Unit J of Section 36, Township 28 North, Range 10 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Chacra formation and from the Basin-Dakota Pool.

Now, on this 8th 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 Omler A Well No. 7E located in Unit J of Section 36, Township 28 North, Range 10 West, NMPM, San Juan County, New Mexico, in such a manner as to permit production of gas from the Chacra formation 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

[Signature]
JOE D. RAMFAY

OIL CONSERVATION COMMISSION
Alta 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 17, 1980
for the Sennew Order A # 7E J-36-28N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Ernest C. 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 10/30/80
Address P.O. Box 3249, Englewood, CO 80155		Lease Omler A		Well No. 7-E
Location of Well J	Unit J	Section 36	Township 28N	Range 10W

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 _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Chacra		Dakota
b. Top and Bottom of Pay Section (Perforations)	3058'-3073'		6407'-6517'
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.

El Paso Natural Gas, P.O. Box 990, Farmington, New Mexico 87401

Southland Royalty Company, 410 - 17th Street, Denver, Colorado 80202

Amoco Production Company, 1616 Glenarm, 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 11-12-80.

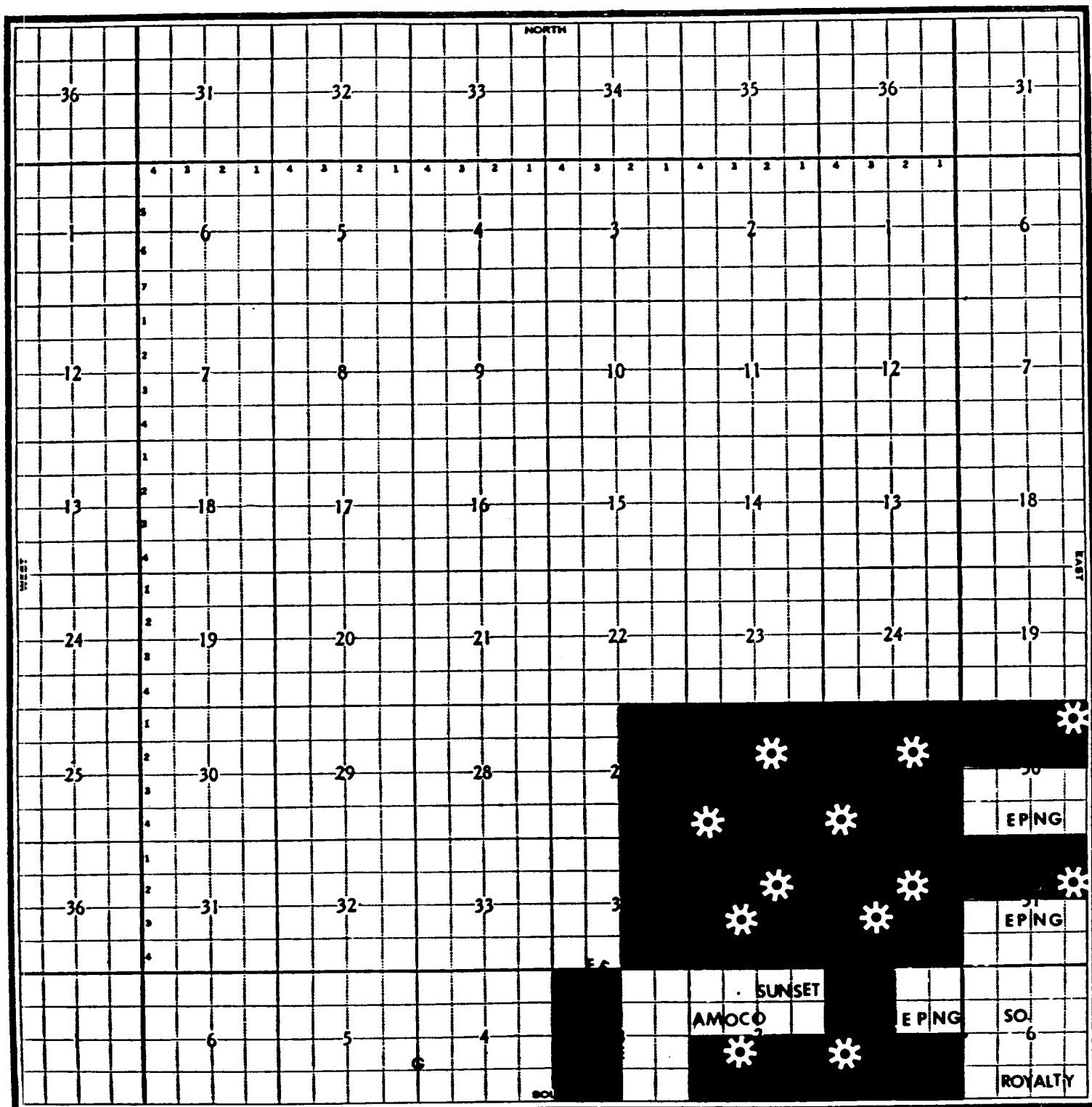
CERTIFICATE: I, the undersigned, state that I am the Asst. Div. Adm. Mgr. of the Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete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


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 pools, then separate application for approval of the same should be filed simultaneously with this application.

TOWNSHIP NO. 28N RANGE NO. 10W COUNTY SAN JUAN STATE NEW MEXICO



LEGEND ☐ ☐ ☐ ☐

SCALE, ONE INCH = ONE MILE

- CHACRA
- DAKOTA
- ⚙ - CHACRA / DAKOTA DUALS

LEASE Omler A

WELL NO. 7E

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

TOC @ -

7 "OD, 23 LB, K-55 CSG.W/ 2145 SX

TOC @ DV tools @ 5408 & 3436.
Lost returns on 1st 2 stages.

*May want to
run collars*

DETAILED PROCEDURE

- 1) MIRUSU, NUBOP
- 2) RIH tag cmt. DO to within 5' of float shoe w/2-3/8" tbg.
- 3) Pressure test csg to 3500 psi.
- 4) Circulate hole w/1% KCL wtr.
- 5) POOH w/tbg.
- 6) Run GR/CCL & cmt bond from PBD to 2500'.
- 7) Perforate Dakota using 4" premium charge csg gun w/2 jspf as follows:
 - 6360-6364
 - 6407-6434
 - 6476-6480
 - 6488-6491
 - 6513-6517Total of 42' - 84 holes
- 8) RIH w/pkr & RBP w/ball catcher.
- 9) Break down perfs using 15% HCL acid and balls as follows:
 - 6476-6517 w/ 440 gals & 33 balls
 - 6407-6434 w/1080 gals & 81 balls
 - 6360-6364 w/ 160 gals & 0 ballsTotal of 1680 gals & 114 balls
- 10) POOH w/pkr & RBP.
- 11) Foam frac the Dakota w/75% quality foamed 1% KCL wtr as follows:
 - 24,000 gals PAD
 - 12,000 gals w/1/2#/gal 20/40 sd
 - 12,000 gals w/1#/gal 20/40 sd
 - 12,000 gals w/1-1/2#/gal 20/40 sd
 - 32,000 gals w/2#/gal 20/40 sdFlush to top perf w/foam. Total of 25,100 gals 2% KCL wtr or 100,400 gals 75 quality foam w/100,000 # 20/40 sd.
Desired rate - 20 BPM
- 12) RDMDFE. Flow to cleanup thru 1/2" CK.
- 13) Kill well w/1% KCL.
- 14) RIH w/tbg.
- 15) CO to PBD w/foam
- 16) Land tbg in BOP.
- 17) Kick around w/N₂ & flow to clean up.
- 18) Kill w/2% KCL water. POOH w/tbg.
- 19) RIH w/Baker Model D pkr w/expendable plug on wireline & set @3200'.
- 20) Dump 2 sxs of sd & load hole w/2% KCL wtr, then pressure test to 3500 psi.
- 21) Perf the Chacra formation w/ 4" premium charge csg gun and 2 JSPF as follows:
 - 3058-3066 8 ft.
 - 3072-3073 1 ft.Total of 9 ft or 18 holes.
- 22) RIH w/pkr set @ - 3000'.
- 23) Break down perfs w/360 gals. 15% acid & 27 balls.
- 24) POOH w/pkr (Knock balls off first).
- 25) Frac Chacra formation down csg w/70 quality foamed 2%4

DETAILED PROCEDURE

Page 2

25) Cont'd

KCl water and 80,000 lbs 20/40 sd as follows:

20,000 gal PAD

10,000 gal w/1/2#/gal 20/40 sand

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

10,000 gal w/1-1/2#/gal 20/40 sand

25,000 gal w/2#/gal 20/40 sand

Flush to top of perf w/foam

Totals: 24018 gals 2% KCl water

80,000 lbs 20/40 sand

80,060 gals 70 quality foam

26) Flow back well to clean up after equipment leaves location.

27) Kill well w/2% KCl water.

28) RIH w/2-3/8" tbg w/1.78" F-Nipple and mule shoe on bottom. Position seal assy and blast jts so that mule shoe will be in Dakota perms, and blast jts opposite Chacra when seal assy lands.

29) Clean sand off Model D and land.

30) Run 1-1/4" tbg for Chacra land @ 3050'.

31) NDBOP & NUWH

32) Blow Chacra around w/N₂ & swab in Dakota.

33) Flow to clean up.