



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE Sept 24, 1985

RE: Proposed MC \_\_\_\_\_  
Proposed DHC ✓ \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated Sept. 6, 1985  
for the Pennew Florance 36 B-21-30a-8w  
Operator Lease and Well No. H Unit, S-T-R

and my recommendations are as follows:

Referred for hearing  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Ernest A. Chavez

**Tenneco Oil**  
**Exploration and Production**

A Tenneco Company

6162 South Willow Drive  
P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Western Rocky Mountain Division

July 31, 1985

*Case 8762*

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Gilbert Quintana

RE: Florance 36  
1850' FNL, 1990' FEL  
Sec. ~~21~~, T30N, R8W  
San Juan County, New Mexico

Gentlemen:

We have enclosed all necessary data for administrative approval to commingle production in the referenced well.

Questions concerning this request can be directed to Mr. Frank Weiss (303) 740-4836.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in cursive script, appearing to read "P. Doyle".

Paul Doyle  
Division Production Engineer

SMc:st

Enclosures

cc: Mr. Jerry Hertzler  
Mr. Frank Weiss

**Tenneco Oil**  
**Exploration and Production**  
A Tenneco Company

6162 South Willow Drive  
P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Western Rocky Mountain Division

*Case 8762*

August 1, 1985

El Paso Natural Gas  
Post Office Box 4990  
Farmington, NM 87499

Attention: Don Reed

RE: Florance 36  
1850' FNL, 1990' FEL  
Sec. ~~21~~ 3, T30N, R8W  
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in dark ink, appearing to read "PA Doyle".

Paul Doyle  
Division Production Engineer

SMc:st

-----  
WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Tenneco Oil**  
**Exploration and Production**

A Tenneco Company

6162 South Willow Drive  
P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

Amoco Production Company  
1670 Broadway  
Denver, CO 80202

Attention: R. C. Burke, Jr.

RE: Florance 36  
1850' FNL, 1990' FEL  
Sec. 31, T30N, R8W  
San Juan County, New Mexico

Gentlemen:

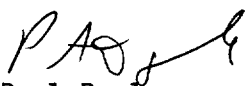
Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

  
Paul Doyle  
Division Production Engineer

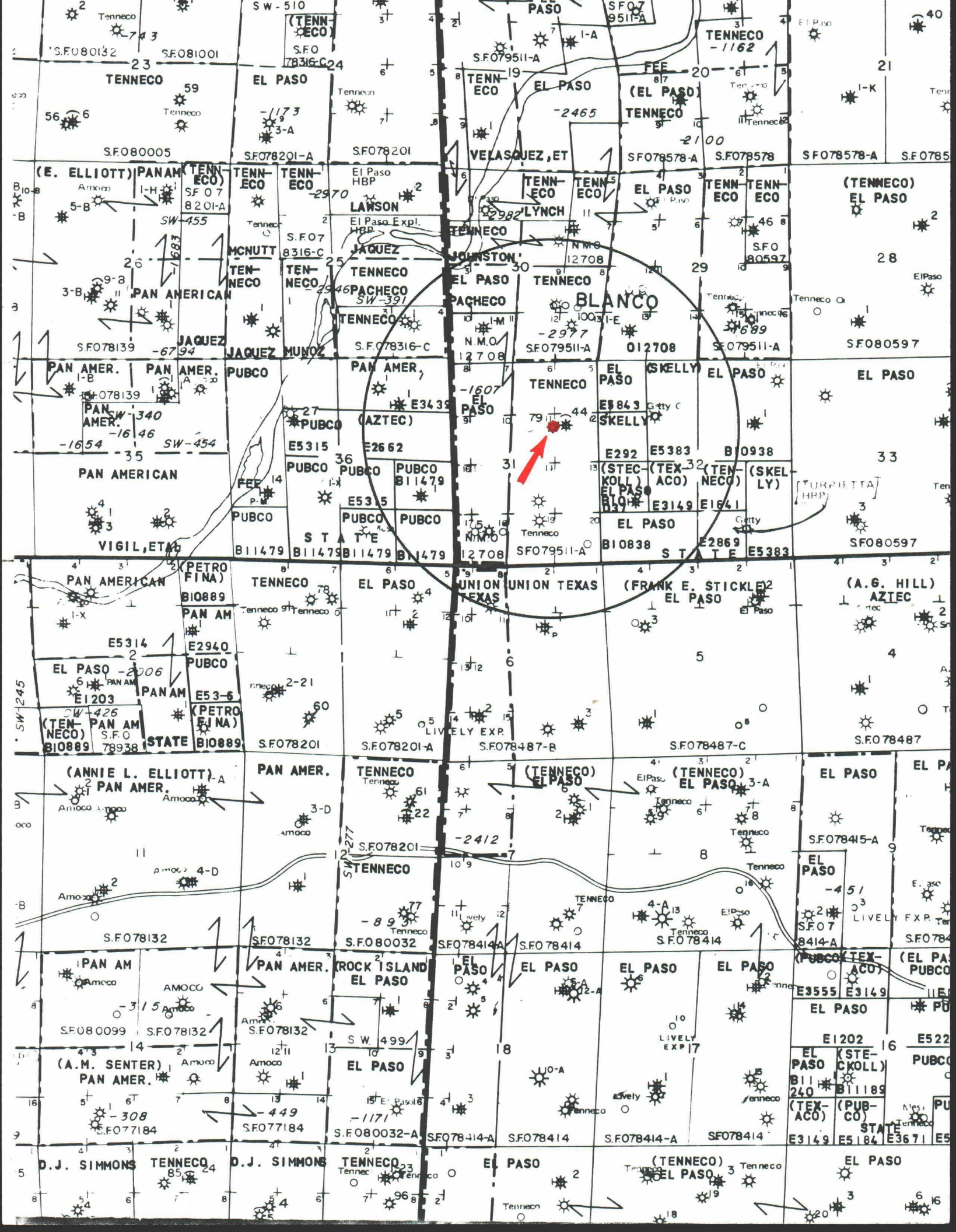
SMc:st

-----  
WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Date: \_\_\_\_\_





Western Rocky Mountain Division

The Florance 36 was completed as a Mesaverde-Dakota dual in October of 1965 with 4-1/2" casing and one string of 2-3/8" tubing. The Dakota produces up the tubing and the Mesaverde flows up the casing-tubing annulus. Because of the large flow area in the annulus, the Mesaverde is experiencing liquid loading problems which are restricting the production from that zone.

Enclosed are decline curves for both the Mesaverde and Dakota zones.

The bottom-hole pressure of the Dakota was measured with a pressure bomb and found to be 938 psig at 7495' after 8 days of shut in. This Dakota pressure corrected to a datum of 5000' was 895 psig. A pressure bomb could not be run for the Mesaverde since this zone produces up the annulus.

A dead weight surface pressure of 423 psig was recorded for the Mesaverde after 8 days of shut in. The fluid level could not be established. The bottom-hole pressure for the Mesaverde was then calculated to be 479 psig at a datum of 5000'. The requirement that the lower pressured zone have a pressure that is greater than 50% of the pressure of the higher pressured zone corrected to a common datum is; therefore, satisfied.

Compatibility tests were conducted using formation water from the Mesaverde and Dakota. The testing indicates that no scale or precipitate problems should result from the commingling of produced waters from these formations. In addition, the salinities of the two zones are similar enough that no formation damage should occur in either zone.

The intent of commingling these two zones is to increase the total production from the well. This will be accomplished by increasing the flow velocity by flowing both zones up the tubing. The cross-sectional area of the tubing is 3.13 square inches, as opposed to 11.27 square inches for the tubing and annulus. Even if no production increase were realized, a 3.6 fold increase in average flow velocity would result from commingling. This velocity increase will enable the well to unload produced fluids and will result in increased gas production from each zone. This greater production rate will increase the velocity in the tubing, yielding even more liquid lifting capacity.

Based upon the decline curves and reserve estimates for these zones, I recommend that the production be allocated on strict percentage basis with 88% assigned to the Mesaverde and 12% assigned to the Dakota.

If you need any additional information, feel free to call me at (303) 740-4836.

  
Frank G. Weiss III  
Senior Production Engineer - WRMD

MESAVERDE

FLORANCE 36 MV/DK  
MESAVERDE DAKOTA COMMINGLING  
2-3/8X4-1/2 ANNULUS

DATE: 7/10/85  
FILE: FILE102  
PROJ: O

G A S W E L L P R E S S U R E S

|                           |       |                             |         |
|---------------------------|-------|-----------------------------|---------|
| MEASURED DEPTH, FEET      | 5000. | FLOW STREAM ID, INCHES      | 2.375   |
| TRUE VERTICAL DEPTH, FEET | 5000. | FLOW STREAM OD, INCHES      | 6.456   |
| GAS GRAVITY               | 0.670 | CRITICAL TEMPERATURE        | 380.    |
| BOTTOM HOLE TEMPERATURE   | 150.  | CRITICAL PRESSURE           | 667.    |
| NITROGEN, MOL %           | 0.    | CONDENSATE GRAVITY, DEG API | 50.0    |
| CARBON DIOXIDE, MOL %     | 0.    | WATER GRAVITY               | 1.047   |
| HYDROGEN SULFIDE, MOL %   | 0.    | PIPE ROUGHNESS, INCHES      | 0.00060 |

| GAS RATE | WH TEMP  | WELLHEAD  | BOTTOMHOLE       | P/Z        | CONDENSATE  | WATER       |
|----------|----------|-----------|------------------|------------|-------------|-------------|
| M/D----- | DEG F--- | PSIG----- | PSIG-----        | PSIG ----- | STB/MMCF--- | BW/MMCF --- |
| 0.       | 60.      | 423       | 479 AT 5000 FEET | (MEAS)     | FLUID LEVEL |             |
|          |          |           | 479 AT 5000 FEET | (MEAS)     | (WTR)       |             |

0350

# B & R SERVICE, INC.

P. O. Box 1048  
Farmington, New Mexico 87401  
(505) 325-2393

Company TENNECO OIL COMPANY Lease FLORANCE Well 36  
County SAN JUAN State NEW MEXICO Date 5-16-85  
Shut-In \_\_\_\_\_ Zero Point G.L. Tbg. Pressure 794  
Casing Pressure PACKER Tbg. Depth \_\_\_\_\_ Casing Perf. \_\_\_\_\_  
Max. Temp. \_\_\_\_\_ Fluid Level \_\_\_\_\_

| <u>DEPTH</u> | <u>PSIG</u> | <u>GRADIENT</u> |
|--------------|-------------|-----------------|
| 0            | 794         | ----            |
| 1000         | 818         | .024            |
| 2000         | 839         | .021            |
| 3000         | 858         | .019            |
| 4000         | 876         | .018            |
| 5000         | 895         | .019            |
| 6000         | 912         | .017            |
| 7000         | 929         | .017            |
| 7395         | 936         | .018            |
| 7495         | 938         | .020            |

## MESAVERDE

8 DAY SHUT IN PRESSURE TEST

DEAD WEIGHT SURFACE PRESSURE TEST 423 PSIG

**SMITH ENERGY SERVICES**  
Division of Smith International, Inc.

2198 East Bloomfield Highway  
Farmington, New Mexico 87401  
Phone (505) 327-7281

June 5, 1985

Tenneco Oil Co.  
Western Rocky Mtn. Div.  
P.O. Box 3249  
Englewood, Co. 80155  
ATTN: Frank Weiss

Dear Mr. Weiss:

Water analysis and compatibility studies were conducted using the following formation water samples:

1. Dawson A#1                      Mesa Verde formation water  
   Dawson A#1                      Dakota formation water  
   (Mesa Verde sample may show scaling tendency, but no incompatibility was  
   seen between the two samples.)
2. Florance #19A                      Mesa Verde formation water  
   Florance #19                      Dakota formation water
3. Riddle A #1                      Mesa Verde formation water  
   Riddle A #1                      Dakota formation water
4. Moore #1A                      Mesa Verde formation water  
   Moore #6E                      Dakota formation water
5. State Com #1A                      Mesa Verde formation water  
   State Com #1                      Dakota formation water
6. Florance #31                      Mesa Verde formation water  
   Florance #31                      Dakota formation water
7. Florance #7A                      Mesa Verde formation water  
   Florance #6                      Dakota formation water
8. Florance #36                      Mesa Verde formation water  
   Florance #36                      Dakota formation water

A small amount of reddish orange precipitate formed but this is to be expected when oxygen is admitted to a water sample containing even a trace of iron.

Tenneco, water analysis con't June 5, 1985

This precipitate should pose no problems in a closed system. No solid precipitates of any other types were noted and these samples should be considered to be compatible for mixing as per the listing above.

Sincerely,

SMITH ENERGY SERVICES



Loren L. Biede  
District Engineer

LLD/kr

Company: TENNECO  
Address:  
Attention: FRANK WEISS  
Date Sampled:

Report No:  
Date: 6-3-85  
County:  
Field:  
Formation: MESA VERDE  
Lease: FLORENCE  
Well: #36

WATER ANALYSIS

|                |          |                |          |
|----------------|----------|----------------|----------|
| Specific Grav: | 1.000    | od:            | 7.00     |
| Chloride:      | 200 mg/l | Calcium:       | 40 mg/l  |
| Bicarbonate:   | 61 mg/l  | Magnesium:     | 24 mg/l  |
| Sulfate:       | 0        | Total Iron:    | 20       |
| Sulfide:       | 0        | Sodium:        | 61 mg/l  |
| Total Hardness |          | Total Dissolve |          |
| (as CaCO3):    | 200 mg/l | Solids:        | 366 mg/l |
| Resistivity:   | 10.00    | Ohm Meters @:  | 62 F     |
| Potassium:     | 0        | Carbonate:     | n c      |

Sample Source:

Remarks:

Analyst: LOREN L. DIEDE  
Smith Representative:

Company: TENNECO  
Address:  
Attention: FRANK WEISS  
Date Sampled:

Report No:  
Date: 6-3-85  
County:  
Field:  
Formation: DAKOTA  
Lease: FLORANCE  
Well: #36

WATER ANALYSIS

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Specific Grav:           | 1.020      | ph:             | 7.20       |
| Chloride:                | 3,999 mg/l | Calcium:        | 82 mg/l    |
| Bicarbonate:             | 183 mg/l   | Magnesium:      | 146 mg/l   |
| Sulfate:                 | 0          | Total Iron:     | 2 mg/l     |
| Sulfide:                 | 0          | Sodium:         | 2,291 mg/l |
| Total Hardness           |            | Total Dissolved |            |
| (as CaCO <sub>3</sub> ): | 800 mg/l   | Solids:         | 6,702 mg/l |
| Resistivity:             | 1.50       | Ohm Meters @:   | 60 F       |
| Potassium:               | 0          | Carbonate:      | n.d.       |

Sample Source:

Remarks:

Analyst: LOREN L. DIEDE  
Smith Representative:

- TENNECO WELL HISTORY -

2537/1

|           |             |           |      |           |          |             |      |    |            |
|-----------|-------------|-----------|------|-----------|----------|-------------|------|----|------------|
| Well Name | Florance 36 | Unit      | H    | Sec       | 3        | T           | 30   | R  | 8          |
| TD        | 7830        | PBTD      | 7810 | County    | San Juan | State       | N.M. | WI | 50         |
| Drig Cost |             | Comp Cost |      | Comp Date | 9-2-54   | Trn On Date |      | RI | 34.5       |
| MV-52     | IP          | ---       | BOPD | 5160      | MCFD     | ---         | BWPD | 3  | Hours 1094 |
| DAK-65    | IP          | ---       | BOPD | 8418      | MCFD     | ---         | BWPD | 3  | Hours 2525 |

- TUBULAR RECORD -

| Size  | Weight    | Grade | Depth | Cement  | Top Cement | Hole Size | Remarks     |
|-------|-----------|-------|-------|---------|------------|-----------|-------------|
| 8-5/8 | 32        | H-40  | 172   | 140     | Surf.      | 12-1/4    |             |
| 6-5/8 | 18.79     |       | 3260  | 78      | 1900       | 7-7/8     | Good Circn. |
| 4-1/2 | 9.5       |       | 4895  | 100     | 4085       | 5-7/8     | Pulled!!    |
| 4-1/2 | 10.5&11.6 | J-55  | 7830  | 275/225 |            | 5-7/8     | DV @ 4504   |
| 2-3/8 |           |       | 7510  |         |            |           | Seal-Lock   |

Packer? Yes ☒ No ☐ Type Model D Depth 7510  
 Anchor? Yes ☐ No ☒ Type  Depth   
 Pump Type

- COMPLETION & WORKOVER RECORD -

Zone #1 - Formation MV Date 8/54 Perfs w/JSPF D/O w/3-3/4"  
 bit. Open hole 5066-4895.

Press Tstd  PSI, Spot Acid - Type  Gallons  BDISIP   
 Acid: Vol. & Type , # balls , Rate  BPM, Press.  PSI  
 Frac: Fluid Volume & Type 9918 gal oil, Sand: 4500 #  Mesh  
 Frac Rate 6.8 BPM Frac Pressure 2200 PSI ISIP  PSI  
 Comments

Zone # 2 - Formation MV Date 8/54 Perfs w/JSPF DO w/3-3/4"  
 bit. Open hole 5428-5600. Pkr @ 5428.

Press Tstd  PSI, Spot Acid - Type  Gallons  BDISIP   
 Acid: Vol. & Type , # balls , Rate  BPM, Press.  PSI  
 Frac: Fluid Volume & Type 8100 gal oil, Sand: 5100 #  Mesh  
 Frac Rate 5-3/4 BPM Frac Pressure 2000 PSI ISIP  PSI  
 Comments CO to 5600'. Ran 1.9" tbq to 4916'.

Zone # 3 - Formation Dakota Date 10/65 Perfs w/JSPF 7722-23, 7724-25,  
7736-38, 7743-46, 7751-54, 7720-24, 7742-50, 7674-80, 7687-88, 7693-96

Press Tstd 4000 PSI, Spot Acid - Type  Gallons  BDISIP   
 Acid: Vol. & Type 3600 - 15%, # balls , Rate  BPM, Press.  PSI  
 Frac: Fluid Volume & Type 92 M gal 1% KCl wtr, Sand: 57M # 40/60 Mesh  
 Frac Rate 34 BPM Frac Pressure 4000 PSI ISIP 3800 PSI  
 Comments Set BP @ 7650'

- CASING REPAIR RECORD -

Depth of Leak , # of squeezes required , # of sx used   
 Cathodic Protection? Yes ☐ No ☐ Date Installed

Comments 1. 10/65 - Sqzd open hole w/200 sx. Cut & pulled 4-1/2" csg @ 3990'  
 Set 50 sx plug @ stub. Sqzd leak in 6-5/8" @ 1050 w/150 sxs. Cut  
 window in 6-5/8" csg.  
 2. MV produces up annulus.  
 3. Location - 1850' FNL, 990' FEL.  
 4. Cost to deepen & drill = \$108,000  
 5. Dakota IBHP = 2961 psi.

Prepared By: P/A Date: 1/1/84 Verified By:  Date:

P. A. Doyle

- TENNECO WELL HISTORY -

-2-

Well Name Florance 36 Unit H Sec 3 T 30 R 8

- COMPLETION & WORKOVER RECORD -

Zone #4 - Formation Dakota Date 10-65 Perfs w/JSPF 2 JSPF: 7574-76, 7578-86, 7623-25, 24 holes

Press Tstd 4000 PSI, Spot Acid - Type \_\_\_\_\_ Gallons \_\_\_\_\_ BDISIP \_\_\_\_\_  
Acid: Vol. & Type \_\_\_\_\_, # balls \_\_\_\_\_, Rate \_\_\_\_\_ BPM, Press. \_\_\_\_\_ PSI  
Frac: Fluid Volume & Type 20 M gal 1% KCl wtr, Sand: 12 M # 40/60 Mesh  
Frac Rate \_\_\_\_\_ BPM Frac Pressure 4000 PSI ISIP \_\_\_\_\_ PSI  
Comments Screened out. Refrac'd w/16,000 gal 1% KCl & 12,000# 40/60 sd.  
Avg press = 4000 psi. Screened out.

Zone # 5 - Formation Dakota Date 10/65 Perfs w/JSPF Reperf w/  
2 JSPF 7568-72, 7588-92. Zone 4 perfs included in treatment.

Press Tstd \_\_\_\_\_ PSI, Spot Acid - Type \_\_\_\_\_ Gallons \_\_\_\_\_ BDISIP \_\_\_\_\_  
Acid: Vol. & Type 500 - 15%, # balls \_\_\_\_\_, Rate \_\_\_\_\_ BPM, Press. \_\_\_\_\_ PSI  
Frac: Fluid Volume & Type 28M gal 1% KCl wtr, Sand: 14M # 40/60 Mesh  
Frac Rate 32 BPM Frac Pressure 4200 PSI ISIP \_\_\_\_\_ PSI  
Comments Also acidized w/336 g 33%. Screened out. Set CIBP @ 5565.

Zone # 6 - Formation MV-PLO Date 10/65 Perfs w/JSPF 2 JSPF: 5236, 5247, 5249, 5250, 5307, 5309, 5311, 5355, 5369, 5371, 5373, 5383, 5384, 5389, 5470, 5507, 5508, 5509, 5516, 5517, 40 holes.

Press Tstd 4000 PSI, Spot Acid - Type \_\_\_\_\_ Gallons \_\_\_\_\_ BDISIP \_\_\_\_\_  
Acid: Vol. & Type \_\_\_\_\_, # balls \_\_\_\_\_, Rate \_\_\_\_\_ BPM, Press. \_\_\_\_\_ PSI  
Frac: Fluid Volume & Type 102 M gal wtr, Sand: 60 M # 20/40 Mesh  
rac Rate 72 BPM Frac Pressure 2300 PSI ISIP -0- PSI  
Comments Tailed in w/18,000 # 8/12 sd. Set CIBP @ 5200'.

Zone #7 - Formation MV-CH Date 10/65 Perfs w/JSPF 2 JSPF: 5021, 22, 32, 33, 34, 35, 56, 46, 57, 65, 71, 72, 73, 74, 5110; 12, 14, 19, 20, 21. (40 holes).

Press Tstd \_\_\_\_\_ PSI, Spot Acid - Type \_\_\_\_\_ Gallons \_\_\_\_\_ BDISIP \_\_\_\_\_  
Acid: Vol. & Type \_\_\_\_\_, # balls \_\_\_\_\_, Rate \_\_\_\_\_ BPM, Press. \_\_\_\_\_ PSI  
Frac: Fluid Volume & Type 82 M gal 1% KCl wtr, Sand: 60M # 20/40 Mesh  
Frac Rate 75 BPM Frac Pressure 2600 PSI ISIP \_\_\_\_\_ PSI  
Comments Tailed in w/ 20,000 # 8/12 sd. Screened out.

Comments \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_ Verified By: \_\_\_\_\_ Date: \_\_\_\_\_

P. A. Doyle

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS - OIL RATIO TESTS

C-116  
Revised 1-1-65

|                                               |          |                    |   |                                                                      |              |            |             |                  |                      |                   |             |           |                             |
|-----------------------------------------------|----------|--------------------|---|----------------------------------------------------------------------|--------------|------------|-------------|------------------|----------------------|-------------------|-------------|-----------|-----------------------------|
| Operator<br>Tenneco Oil Company               |          | Pool<br>Mesaverde  |   | County<br>San Juan                                                   |              |            |             |                  |                      |                   |             |           |                             |
| Address<br>P.O. Box 3249, Englewood, CO 80155 |          | TYPE OF TEST - (X) |   | Completion <input type="checkbox"/> Special <input type="checkbox"/> |              |            |             |                  |                      |                   |             |           |                             |
| LEASE NAME                                    | WELL NO. | LOCATION           |   |                                                                      | DATE OF TEST | CHOKE SIZE | TBG. PRESS. | DAILY ALLOW-ABLE | LENGTH OF TEST HOURS | PROD. DURING TEST |             |           | GAS - OIL RATIO CU.FT./BBL. |
|                                               |          | U                  | S | T                                                                    |              |            |             |                  |                      | R                 | WATER BBLs. | GRAV. OIL |                             |
| Florence                                      | 36       | H                  | 3 | 30                                                                   | 8            | 5/22/85    | S           | N/A              | 420                  |                   |             |           |                             |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Veronica S. S. S.  
(Signature)  
Administrative Supervisor  
(Title)

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

|                                                      |           |                       |          |                                                                      |              |                |              |                  |                      |                   |             |           |                            |           |
|------------------------------------------------------|-----------|-----------------------|----------|----------------------------------------------------------------------|--------------|----------------|--------------|------------------|----------------------|-------------------|-------------|-----------|----------------------------|-----------|
| Operator<br><b>Tenneco Oil Company</b>               |           | Pool<br><b>Dakota</b> |          | County<br><b>San Juan</b>                                            |              |                |              |                  |                      |                   |             |           |                            |           |
| Address<br><b>P.O. Box 3249, Englewood, CO 80155</b> |           | TYPE OF TEST - (X)    |          | Completion <input type="checkbox"/> Special <input type="checkbox"/> |              |                |              |                  |                      |                   |             |           |                            |           |
| LEASE NAME                                           | WELL NO.  | LOCATION              |          |                                                                      | DATE OF TEST | CHOKE SIZE     | TBG. PRESS.  | DAILY ALLOW-ABLE | LENGTH OF TEST HOURS | PROD. DURING TEST |             |           | GAS - OIL RATIO CU.FT./BBL |           |
|                                                      |           | U                     | S        | T                                                                    |              |                |              |                  |                      | R                 | WATER BBLs. | GRAV. OIL |                            | OIL BBLs. |
| <b>Florance</b>                                      | <b>36</b> | <b>H</b>              | <b>3</b> | <b>30</b>                                                            | <b>8</b>     | <b>5/28/85</b> | <b>F N/A</b> |                  | <b>24</b>            | <b>0.</b>         | <b>35.2</b> | <b>0</b>  | <b>51.57</b>               | <b>0</b>  |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

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

*Maruta Serrano*  
(Signature)

Administrative Supervisor  
(Title)

(Date)

FLORANCE 36

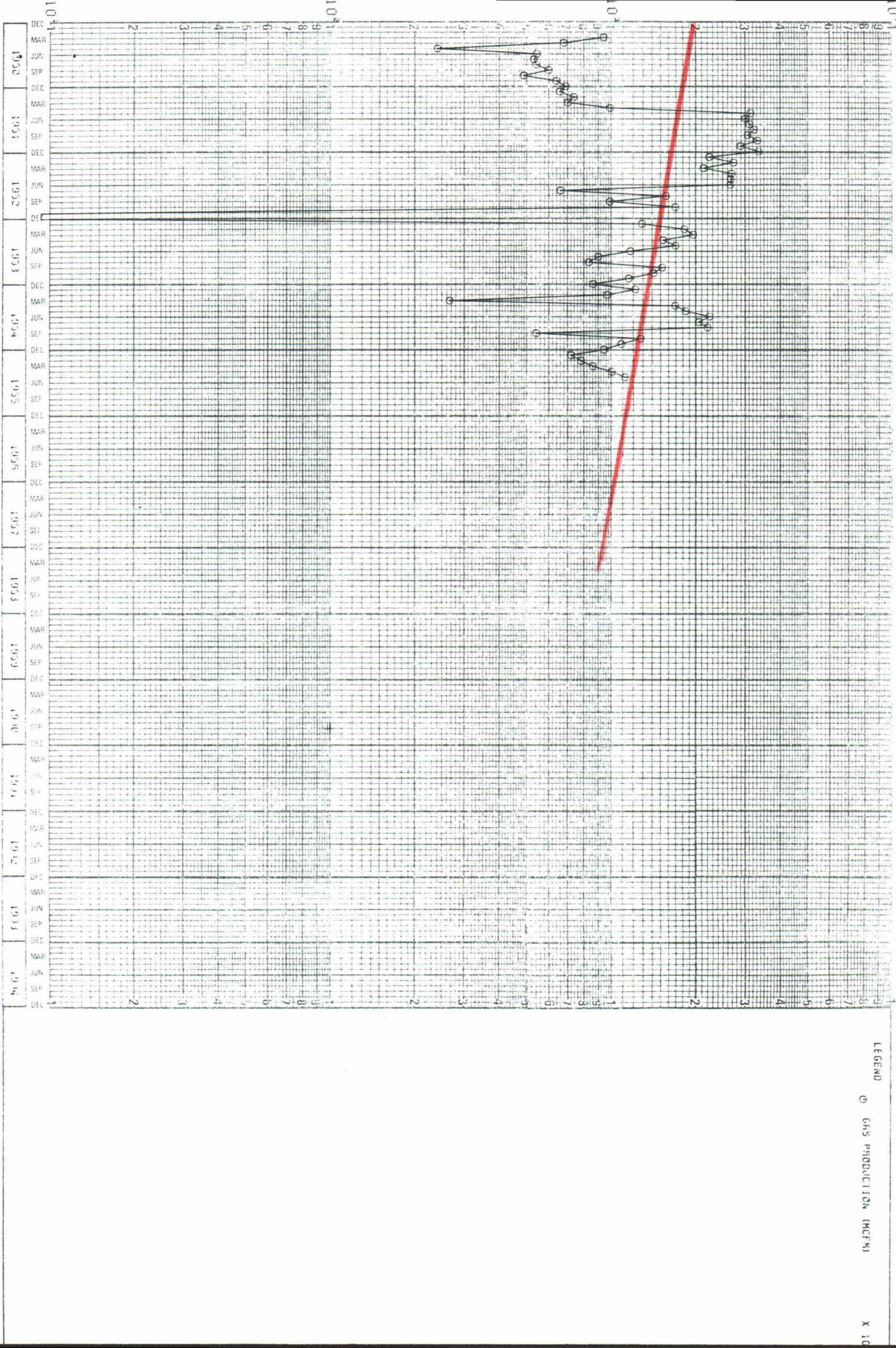
DETERMINATION OF ALLOCATION PERCENTAGES

The decline rates and reserve estimate for the Mesaverde and Dakota are indicated below:

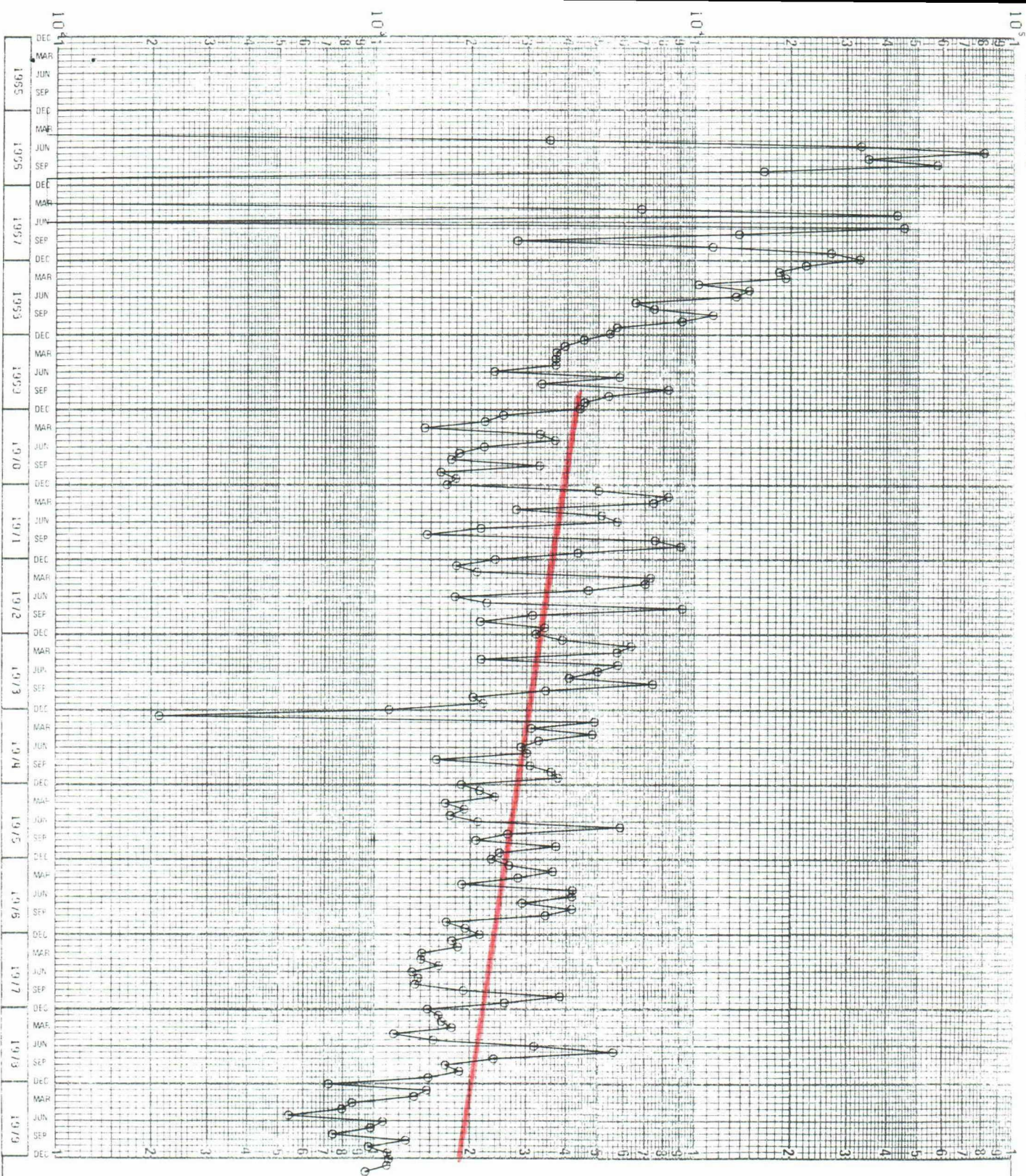
|           | <u>DECLINE PERCENTAGE</u> | <u>REMAINING RESERVES</u> |
|-----------|---------------------------|---------------------------|
| MESAVERDE | 6%                        | 987 MMCF                  |
| DAKOTA    | 9%                        | 140 MMCF                  |

FLORENCE 36  
030N008W03H

DAKQ1A



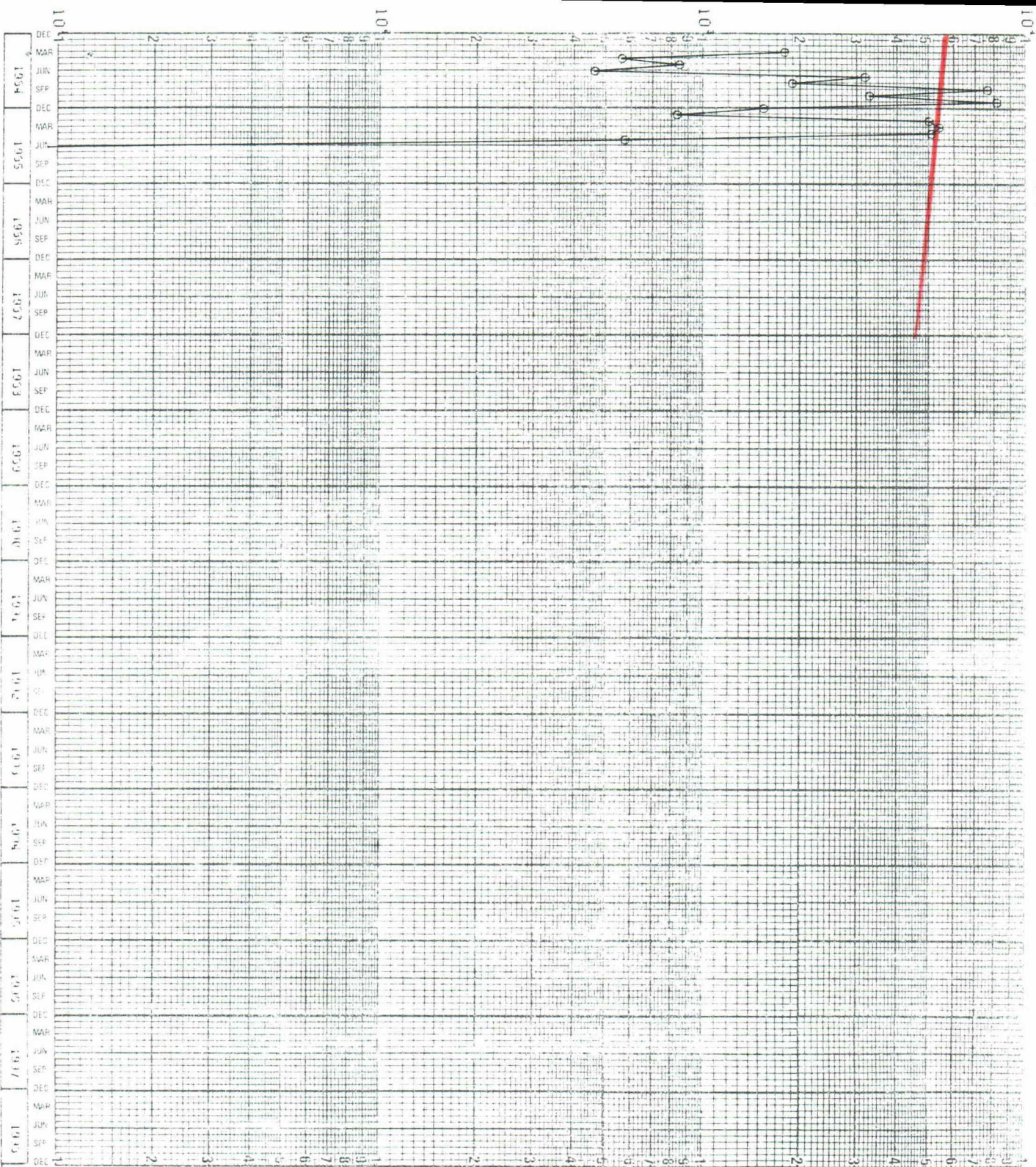
FLORANCE 36  
030N008W03H  
DAK01A



LEGEND  
O GAS PRODUCTION (MCFM)

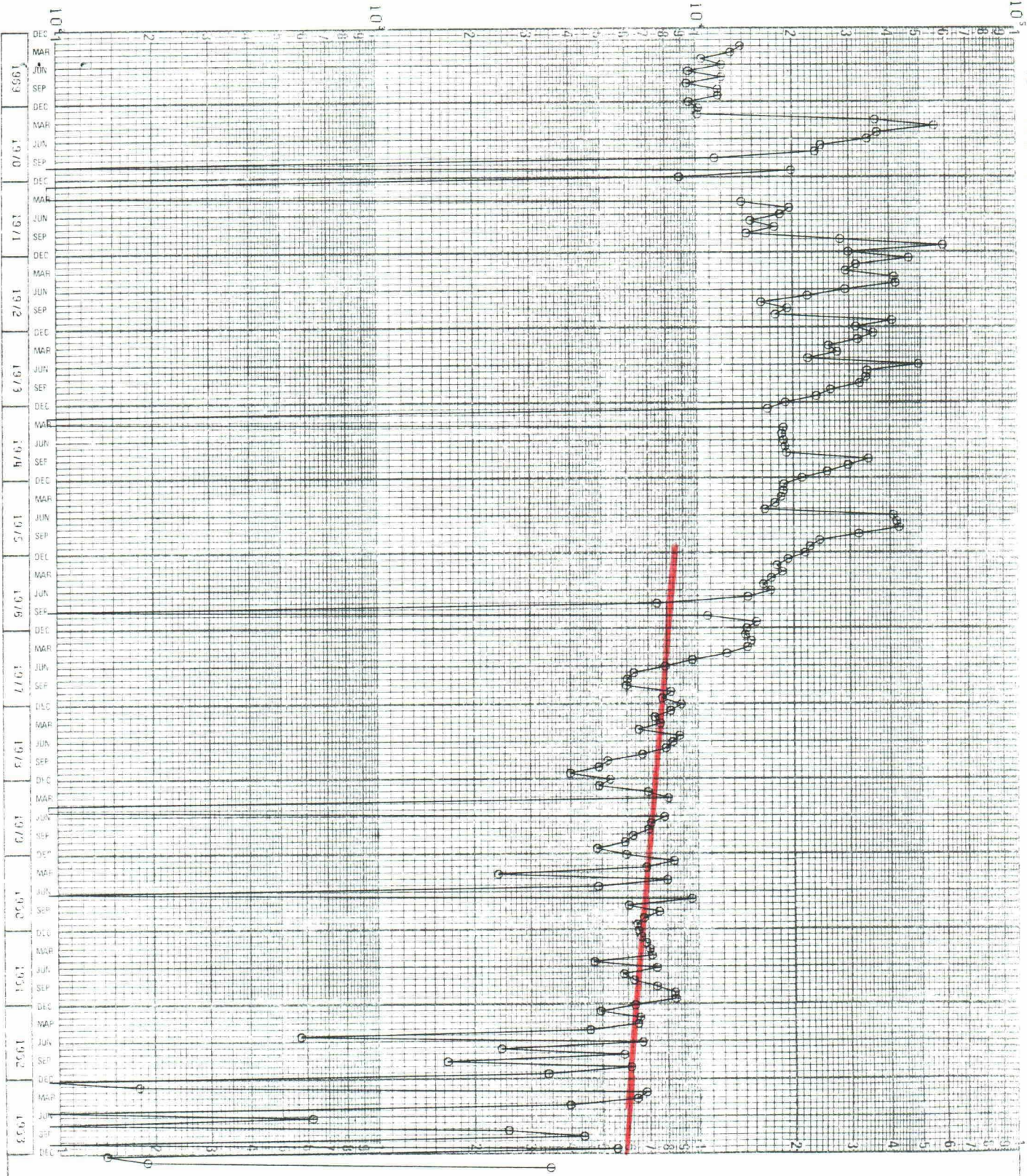
X

PLDT-10 LHM001



LEGEND  
 O GAS PRODUCTION (MCFM)  
 X

FLORANCE 36  
 030N008W03H  
 MESAVERRDF



LEGEND  
 O GAS PRODUCTION (MCFM)

X

FLORANCE 36

**Tenneco Oil**  
**Exploration and Production**  
A Tenneco Company

6162 South Willow Drive  
P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Western Rocky Mountain Division

August 1, 1985

El Paso Natural Gas  
Post Office Box 4990  
Farmington, NM 87499

Attention: Don Reed

RE: Florance 36  
1850' FNL, 1990' FEL  
Sec. 31, T30N, R8W  
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501  
Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

A handwritten signature in cursive script, appearing to read "P. Doyle".

Paul Doyle  
Division Production Engineer

SMc:st

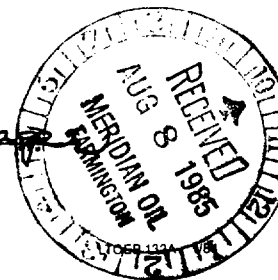
WAIVER

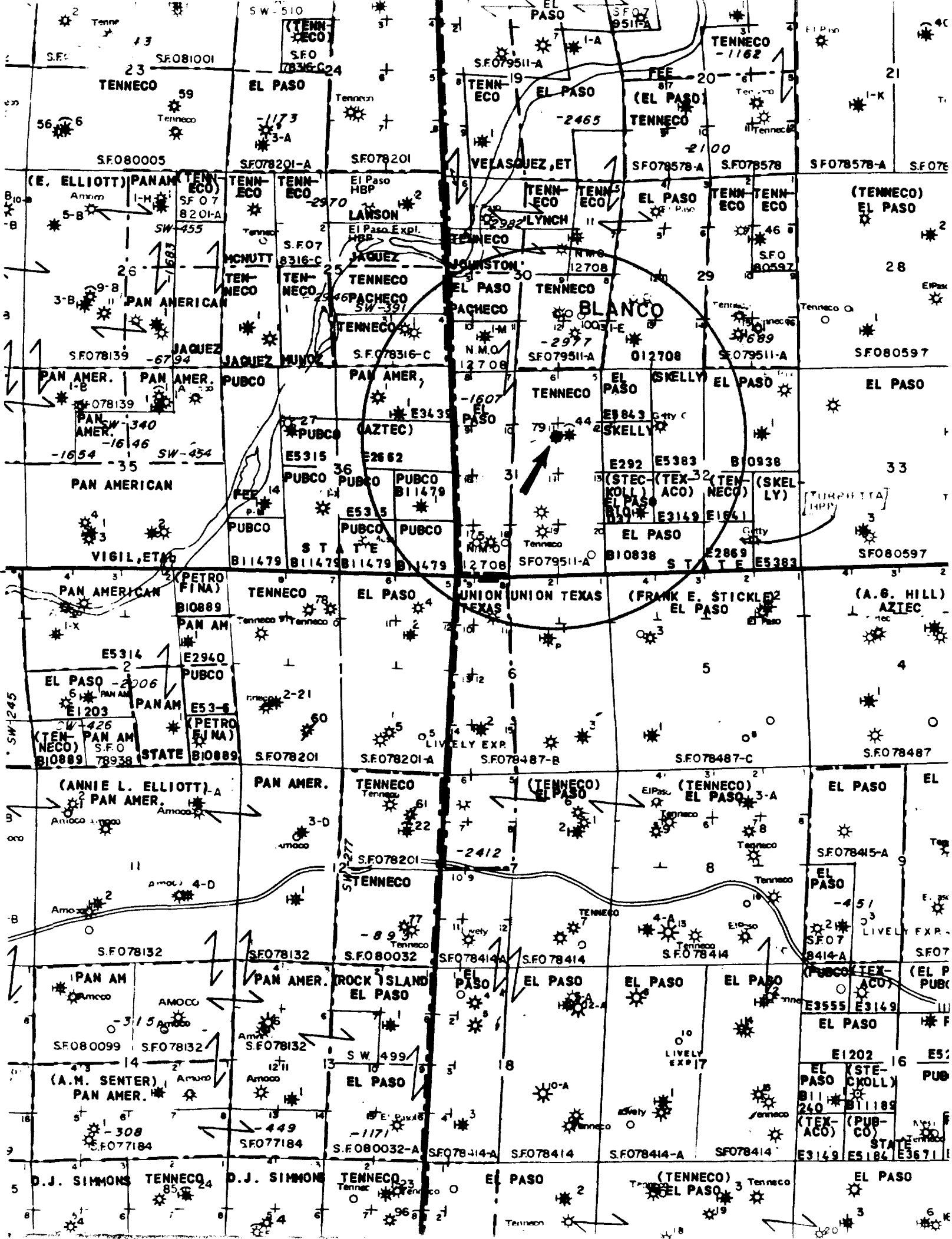
We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: Donald R. Reed

Title: District Manager

Date: 8-9-85





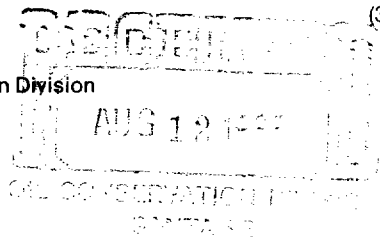
# Tenneco Oil Exploration and Production

A Tenneco Company

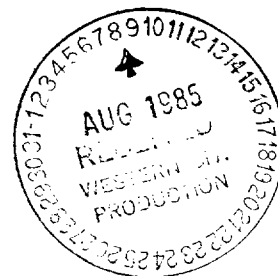
6162 South Willow Drive  
P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800



Western Rocky Mountain Division



August 1, 1985



Amoco Production Company  
1670 Broadway  
Denver, CO 80202

Attention: R. C. Burke, Jr.

RE: Florance 36  
1850' FNL, 1990' FEL  
Sec. 31, T30N, R8W  
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

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Very truly yours,

TENNECO OIL COMPANY

Paul Doyle  
Division Production Engineer

SMc:st

## WAIVER

We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

Name: MR. J. J. [Signature]

Title: Acting Div. Prod. Mgr.

Date: 8-9-85

