DHC-309 Duc-3/5/80

NATURAL RESOURCES GROUP Exploration and Production

February 5, 1980

Application for Exception to Rule 303-C--Eilliams Well No. 8, Maljamar (Grayburg-San Andres) and Corbin (Queen) Zones, Lea County, New Mexico

Corlin Pool neafgewor Ib-SA

New Mexico Department of Energy and Minerals Oil Conservation Division (2

P. O. Box 2088

Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,

Director

Gentlemen:

Phillips Petroleum Company requests administrative approval to permit downhole commingling of production from the Maljamar (Grayburg-San Andres) and the Corbin (Queen) zones in the Eilliams Well No. 8, located in Unit H, Section 34, T-17-S, R-33-E, Lea County, New Mexico.

The well is currently a single completion in the Corbin (Queen), and the Maljamar (Grayburg-San Andres) is shut off under a retrievable bridge plug. The well was drilled in February, 1980, and is not now or never has been dually completed.

In support of this request and in accordance with Rule 303-C, the following exhibits and facts are submitted:

- 1. The attached plat shows the Eilliams Well No. 8 location.
- 2. A complete resume of the well's completion history.
- Comparison economics of commingled production versus individual zone production.
- 4. A data sheet with information about the two completion zones.
- 5. Form C-116's showing current oil, water, and gas tests of each zone.
- 6. A schematic diagram showing the present completion and the proposed commingled completion.

Application for Exception to Rule 303-C-Eilliams Well No. 8
February 5, 1980
Page: 2

- 7. The ownership of the two zones to be commingled is common in all respects.
- 8. Copies of this application have been furnished to the attached list of offset operators.

Regards,

PHILLIPS PETROLEUM COMPANY

G. R. Smith

Reservoir Engineering Director

REW:skm Attachments

cc: Oil Conservation Division Box 1980

Hobbs, New Mexico 88240

Attachments

# OFFSET OPERATORS To Phillips Petroleum Company Eilliams Well No. 8

Union Oil Company of California Attn: R. S. Cooke P. O. Box 3100 Midland, Texas 79702

Harvey E. Yates Company, Inc. West Building Midland, Texas 79701

Target Production Company 2400 S. Main Lovington, New Mexico 88260

Energy Reserves Group, Inc. Attn: R. L. Zimmermann 1509 W. Wall Midland, Texas 79701

### NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

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| Phillip            | os Petroleum Co                         | <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Eilliams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>,                                    </u> |                                        | 88                           |
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|                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7,,,,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1=1                                          | Document 19                            | -/19                         |
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|                    | 1                                       | A B B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .                                            | ,                                      | ect to the best of my        |
|                    | ł                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10. 23.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              | knowledge and be                       |                              |
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| 1                  | 1                                       | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Will J. The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 }                                          | Date Surveyed                          |                              |
|                    | 1                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | i<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              | December 1,                            | 1978                         |
|                    | 1 1                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I 1                                          | Registered Professional or Land Survey | onal Engineer                |
|                    | i<br>L                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              | Donald !                               | Fielsen                      |
| 0 330 660          | 0 1320 1650 198                         | 0 2310 2040 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1800 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00 .0                                        | V                                      | n W. West 676                |

#### EILLIAMS-8 WELL HISTORY

#### March 12, 1979

The well was drilled to a total depth of 4800' originally completed in the Maljamar (Grayburg-San Andres) from 4629-4709' with 44 perforated holes.

That zone was treated with 7,500 gallons of 28% NE HCl and 4,500 gallons of 3% HCl in three stages. Production tests determined this zone to be uneconomical.

#### April 12, 1979

The perforations 4629-4709' were squeezed with 50 sacks of API Class C cement and held to 1000 psi. The zone 4552-4596' was perforated with 72 holes. The zone 4552-4596' was fracture-treated with 25,000 gallons of refined oil and 45,000 pounds of 10/20 mesh sand in three equal stages. Production tests determined this zone to be uneconomical.

#### June 12, 1979

The perforations 4552-4596' were squeezed with 100 sacks of API Class C cement and held to 2000 psi. The Grayburg was perforated from 4472-4482' with 20 holes. That zone was then acidized with 250 gallons of super hydrofluoric acid and subsequently fractured with 10,000 gallons of refined oil and 16,500 pounds of 10/20 mesh sand. The state potential from that zone was taken July 6, 1979, and tested 12 barrels of oil per day, 0 barrels of water per day, and a GOR of 426.

#### August 30, 1979

A retrievable bridge plug was set in the casing at 3950', sealing off the Grayburg perforations. The Corbin (Queen) was perforated from 3854-3870' with 32 holes. The perforations were treated with 250 gallons of super hydrofluoric acid and fractured with 12,000 gallons of refined oil and 21,000 pounds

of 10/20 mesh sand in two stages. The state potential for the Queen Zone was taken September 28, 1979, and tested 17 barrels of oil per day, 7 barrels of water per day, and no gas.

Subsequent 20-30 day retests on both zones showed the <u>Grayburg-San Andres</u> produced 5 BO, 10 BW, with a GOR of 1600. The <u>Queen produced 8 BO</u>, 4 BW, and no gas. Commingled production should be allocated 50 percent to the Grayburg-San Andres and 50 percent to the Queen.

The possibility of a dual completion is unfavorable due to the small size (4-1/2" OD) of the production casing. The following computation indicates the increased value of commingling the production between the Queen and the Grayburg-San Andres reservoirs. It consists of a comparison of the present values of incoming cash flows for two cases:

- Case 1: Commingled Production of Queen and Grayburg-San Andres.
- Case 2: Individual Production of Queen then Grayburg-San Andres.

Using a present value of 10% interest, the forecasts show an increase in value of \$78,285 for Case 1 over Case 2. Case 2 approximates dual completion economics since each zone would have individual lifting costs.

Bh-SA 5 BO - allgar

Rusen 8 BO 5 nogar

13.

Bottom of 4596, may prod 20 30pd

Case 1: Commingled Production of Queen and Grayburg.

Assume the life of the commingled reservoirs is 13 years. Cumulative production would be 36,282 BO at an initial rate of 20 BOPD.

|       |            | JCTION<br>EDULE | DISCOUNTED<br>CASH FLOW |
|-------|------------|-----------------|-------------------------|
| YEAR  | OIL (BBLS) | GAS (MCF)       | @ 10%                   |
| 1     | 6618       | 3309            | \$187,562               |
| 2     | 5523       | 2762            | 147,197                 |
| 3     | 4611       | 2306            | 115,447                 |
| 4     | 3869       | 1935            | 91,432                  |
| 5     | 3212       | 1606            | 77,530                  |
| 6     | 2701       | 1351            | 65,564                  |
| 7     | 2227       | 1114            | 54,174                  |
| 8     | 1862       | 931             | 45,212                  |
| . 9   | 1570       | 785             | 37,986                  |
| 10    | 1314       | 657             | 31,684                  |
| 11    | 1095       | 548             | 26,348                  |
| 12    | 913        | 457             | 20,974                  |
| 13    | 767        | 384             | 16,821                  |
| Total | 36282 ВЬ1  | 18145 Mcf       | \$917,931               |

Case 2: Individual Production of Queen then Grayburg.

Assume the life of each reservoir is 10 years if they are produced independently. Cumulative production from each reservoir is 17,500 BO at an initial production rate of 10 BOPD. Assume the Corbin (Queen) is produced to depletion, then the Maljamar (Grayburg-San Andres) is produced to depletion.

|        |            | ODUCTION<br>CHEDULE | DISCOUNTED<br>CASH FLOW |
|--------|------------|---------------------|-------------------------|
| YEAR   | OIL (BBLS) | GAS (MCF)           | @ 10%                   |
| 1<br>2 | 3314       | 1657                | \$ 93,923               |
|        | 2805       | 1403                | 74,758                  |
| 3      | 2374       | 1187                | 59,438                  |
| 4      | 2009       | 1005                | 47,477                  |
| 5      | 1700       | 850                 | 41,034                  |
| 6      | 1439       | 720                 | 34,931                  |
| 7      | 1218       | 609                 | 29,629                  |
| 8      | 1031       | 516                 | 25,035                  |
| 9      | 872        | 436                 | 21,098                  |
| 10     | 738        | 369                 | 17,795                  |
| 11     | 3314       | 1657                | 79,741                  |
| 12     | 2805       | 1403                | 64,435                  |
| 13     | 2374       | 1187                | 52,063                  |
| 14     | 2009       | 1005                | 42,028                  |
| 15     | 1700       | 850                 | 33,952                  |
| 16     | 1439       | 720                 | 27,439                  |
| 17     | 1218       | 609                 | 22,165                  |
| 18     | 1031       | 516                 | 17,918                  |
| 19     | 872        | 436                 | 14,457                  |
| 20     | <u>738</u> | <u>369</u>          | 11,677                  |
| Total  | 35000 вь1  | 17504 Mcf           | \$810 <b>,</b> 993      |

### EXHIBIT "A" DATA SHEET

#### PHILLIPS PETROLEUM COMPANY 4001 PENBROOK STREET ODESSA, TEXAS 79762

APPLICATION FOR EXCEPTION TO RULE 303(a) OF NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS ALLOWING DOWNHOLE COMMINGLING OF DUALLY COMPLETED OIL WELLS BY ADMINISTRATIVE PROCEDURE (ORDER NO. R-3845)

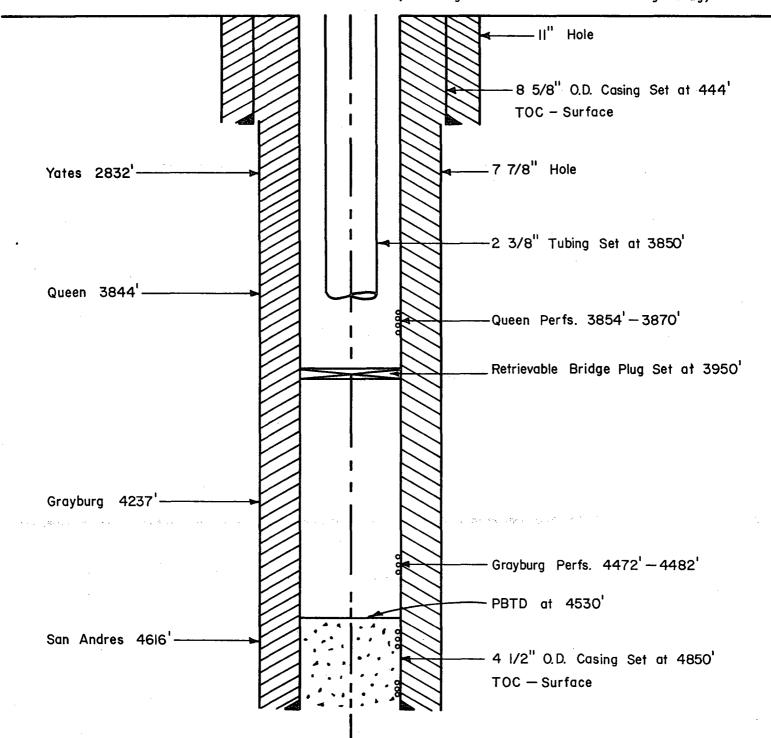
| 1.   | Lease Name: Eilliams                                                                                                                                                                                                                                                   |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.   | Well No.: 8                                                                                                                                                                                                                                                            |
| 3.   | Well Location: Unit <u>H</u> , <u>2310</u> feet from <u>North</u> line, <u>330</u>                                                                                                                                                                                     |
|      | feet from <u>East</u> line of Section <u>34</u> , Township <u>17-S</u> Range <u>33-E</u> ,                                                                                                                                                                             |
|      | Lea County, New Mexico                                                                                                                                                                                                                                                 |
| 4.   | Upper Zone: Corbin (Queen)                                                                                                                                                                                                                                             |
| 5.   | Completion Interval: 3854-3870                                                                                                                                                                                                                                         |
| 6.   | Lower Zone: Maljamar (Grayburg-San Andres)                                                                                                                                                                                                                             |
| 7.   | Completion Interval: 4472-4482                                                                                                                                                                                                                                         |
| 8.   | Dual Completion Authorized by Commission Order No. Not Dually completed                                                                                                                                                                                                |
| 9.   | Lower Zone SI under RE Current Productivity Test Summary (Form C-116 attached)                                                                                                                                                                                         |
|      | Corbin Maljamar Queen Gb-SA (Upper Zone) (Lower Zone)                                                                                                                                                                                                                  |
| . *  | Producing Method         Pump         Shut-in           0il Bbls/day         8         5           Gas Mcf/day         TSTM         8           Water Bbls/day         4         10           GOR         0         1600           GOR Limit         2000         2000 |
| 10.  | Bottom-hole Pressure of Upper Zone: Not Available                                                                                                                                                                                                                      |
| 11.  | Bottom-hole Pressure of Lower Zone: Not Available                                                                                                                                                                                                                      |
| 12.  | Fluid Characteristics of Each Zone: Both zones produce a compatible                                                                                                                                                                                                    |
|      | 'intermediate crude. Expect no problems from untreatable precipitates                                                                                                                                                                                                  |
|      | resulting from commingled formation water.                                                                                                                                                                                                                             |
| Ву:  | R. E. Williams                                                                                                                                                                                                                                                         |
| Date | :                                                                                                                                                                                                                                                                      |

## PHILLIPS PETROLEUM COMPANY EILLIAMS WELL NO. 8

# APPLICATION FOR EXCEPTION TO RULE 303 (a)

WELLBORE SKETCH

(Commingled Sketch Will Exclude Bridge Plug)



Dovised 1-1-05 9::5

|                            |                                         | 1:0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 0 0 X              |          |  |
|----------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|--|
|                            |                                         | 1 50 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 07.74.0<br>00.817.00 | ~        |  |
|                            | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0                    | TST      |  |
|                            |                                         | DURING T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3 7 3 8<br>0 0 8     | ω        |  |
|                            | 0-30 day                                | PR00. 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 085%<br>010          | 34.6     |  |
| Lea                        | 20-30<br>Comple                         | a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8 7 1 E B            | 7        |  |
| A151                       |                                         | LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      | 24       |  |
| (County                    | Schoduled                               | DAILY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | オピロの学                | 17       |  |
|                            | Scho                                    | TEG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P.RESS.              |          |  |
|                            | (X) + E                                 | U<br>X<br>O<br>E<br>U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 101<br>103<br>103    |          |  |
|                            | 1200 T                                  | II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 9        |  |
| bin (Queen)                | •                                       | DATEO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TEST                 | 11-5-79  |  |
| Corbin                     | 62                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ĸ                    | 33-E     |  |
|                            | 79762                                   | LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1-                   | 17-S     |  |
| 1.30                       | Texas                                   | LOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (7                   | 34       |  |
|                            | 1 1                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Э                    | Д        |  |
| any                        | ς, Odessa,                              | WELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO.                  | ∞        |  |
| oleum Comp                 | 1 Penbrook,                             | ٠.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |          |  |
| Phillips Petroleum Company | Room 401, 4001                          | to the state of th | 1 A A A              | Eilliams |  |
| permor                     | \$80000                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | •        |  |

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

Dufty geroll rutio, test, esch veil shall be produced ut a race not choeding the unitaliteratio for the pool in which well is located by more than 18 percent. Operator is encueraged to take ndvamage of this 18 process (oberace in order to a well east be absigned) increased allewables when authorized by the Commission.

Gas velumes most be reported in MCF measured at a pressure to se of 15.025 pale and a temperstum of 60% F. Specific gravity base will be 0.00.

Report resung pressure in tieu of tubing pressure for any will producing tinough curings

Mail estains and one copy of this report to the district of the New Legico Off Concernant Line or ordered with Rule 301 and eppropriate pool rules.

November 9, 1979

I hereby certify that the above information

is true and complete to the best of my know-

ledge and belief.

Senior Engineering Specialist (2/2/2/2/2/2)

J. Mueller

NEW REMICO OIL CONSERVATION COMMISSION GASTOIL RATIO TESTS

Routerd 1-1-55 0110

| Cremor                                                                                              |           |         | 10001     |            |           |                 |                                        |                                                    |                                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | County |                          |              |                                         |               |                                             |
|-----------------------------------------------------------------------------------------------------|-----------|---------|-----------|------------|-----------|-----------------|----------------------------------------|----------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------|--------------|-----------------------------------------|---------------|---------------------------------------------|
| Phillips Petroleum Company                                                                          | χι        |         |           |            | Ma J      | Maljamar Gb-    | Gb-SA                                  |                                                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | Lea                      | ŭ            |                                         |               | **************************************      |
| 4001 Penbrook St., Odessa,                                                                          | ı, Texas  |         | 79762     |            |           | 1               | TECT - (X                              | (X)                                                | 23                               | Schodulnd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | 20-30 day                | -30 day      |                                         | S S           | [                                           |
| 10 c c c c c c c c c c c c c c c c c c c                                                            | WE!       |         | 1007      | MOLFADOL   |           | ROHLAG          | į                                      | CHOKE                                              | ği                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LENGTA |                          | FROD, CURING | JRING T                                 | 1.63          | 2.55 ± 0:L                                  |
| 16751<br>1074<br>1074<br>1074<br>1074<br>1074<br>1074<br>1074<br>107                                | ио.       | 5)      | ۲۶        | <b>j</b> - | ĸ         | TEST            | 4444                                   | 62 62 62 63 64 64 64 64 64 64 64 64 64 64 64 64 64 |                                  | ALLOR-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | WATER CRAV.<br>BOLS. OIL | CRAV.        | 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0.50<br>7.0.7 | 8A710<br>00.817.881                         |
| Eilliams                                                                                            | &         | Ħ       | 34        | 17         | 33        | 8-17-79         |                                        |                                                    |                                  | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24     | 10                       | 34.5         | 5                                       | ω             | 1600                                        |
|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    |                                  | normalista de la proposa de la professiona della |        |                          |              |                                         |               |                                             |
|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    |                                  | . game 17 amagani 18 g , 1 ama                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                          |              |                                         |               |                                             |
|                                                                                                     |           |         |           |            |           |                 | ************************************** |                                                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                          |              |                                         |               |                                             |
|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                          |              |                                         |               | •                                           |
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|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    | a Talona and analysis appears of | er ulkanydi geerining by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                          |              |                                         |               |                                             |
| -                                                                                                   |           |         |           |            |           |                 |                                        |                                                    |                                  | androne principals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -      |                          |              |                                         |               |                                             |
|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    |                                  | Table National Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                          |              |                                         |               |                                             |
|                                                                                                     |           |         |           |            |           |                 |                                        |                                                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                          |              |                                         |               |                                             |
| No well will be assigned an allowable greater than the ansunt of oil produced on the official test. | tong ette | er than | the arasi | ilo je jur | - Srodnes | d on the effect | 2 10 25                                |                                                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | I her                    | :eby cc:     | tify that                               | the abov      | I hereby certify that the above information |

Dustra gas-off ratio test, each well charl be produced at a rate not unceeding tactory unit affectable for the pool in which well is incominged to take navantage of this 26 percent tolerance in order that be a uniqued increased allowables when authorized by the Commission.

is true and complete to the bast of my know-

ledge and belief.

Date:

Gas volumes must be reported in MCF measured by a pressure base of 15.005 yeld and a temporature of 50° F. Specific gravity base ₩III № 0.60.

Report casing pressure in Hou of tabuing pressure for any well producing through moting.

Half enginel and one copy of this report to the district office of the New Monles Off Consurtation Commission in accordance with Rule 301 and appropriate pool rules.

Leber J. Roper R. J. Roper Senior Reservoir Engineer

### OIL CONSERVATION DIVISION DISTRICT I

| SANTA FE, NEW MEXICO 87501  OIL CONSERVATION DIVISION RE: Proposed MC Proposed MSL Proposed NSP Proposed SWD Proposed WFX Proposed WFX Proposed PMX  Gentlemen:  I have examined the application for the:  Phillips Pet. Co. Eilliams No. 8-H 34-17-33  Operator Lease and Well No. Unit, S - T - R  and my recommendations are as follows:  O.KJ.S. | OIL CONSERVATION DIV                    | ISTON FEB 1 9 1930          | DATE February 13, 1980                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|--------------------------------------------------------------------|
| Gentlemen:  I have examined the application for the:  Phillips Pet. Co. Eilliams No. 8-H 34-17-33 Operator Lease and Well No. Unit, S - T - R and my recommendations are as follows:  O.KJ.S.                                                                                                                                                        | P. O. BOX 2088<br>SANTA FE, NEW MEXICO  | 87501 CONSTRUCTION DIVISION | Proposed DHC X Proposed NSL Proposed NSP Proposed SWD Proposed WFX |
| Phillips Pet. Co. Eilliams No. 8-H 34-17-33 Operator Lease and Well No. Unit, S - T - R and my recommendations are as follows:  O.KJ.S.                                                                                                                                                                                                              | Gentlemen:                              |                             | Proposed PMX                                                       |
| Operator  Lease and Well No. Unit, S - T - R  and my recommendations are as follows:  O.KJ.S.                                                                                                                                                                                                                                                        | I have examined the                     | application for the:        | •                                                                  |
|                                                                                                                                                                                                                                                                                                                                                      | Operator and my recommendation          | Lease and Well No.          |                                                                    |
| Yours very truly,  Authority  Many Sullan                                                                                                                                                                                                                                                                                                            | 0.KJ.S.                                 |                             |                                                                    |
| Yours very truly,  Augustus                                                                                                                                                                                                                                                                                                                          | *************************************** |                             |                                                                    |
| Yours very truly,                                                                                                                                                                                                                                                                                                                                    |                                         |                             |                                                                    |
| Jerry Sullar                                                                                                                                                                                                                                                                                                                                         | Yours very truly,                       |                             |                                                                    |
| /mc                                                                                                                                                                                                                                                                                                                                                  | Jenny                                   | Tyllon)                     |                                                                    |