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PDRC03203 26066

# **MERRION**

OIL & GAS

3/70

**RECEIVED**

JUL 21 2003

OIL CONSERVATION  
DIVISION

July 16, 2003

Mr. William Jones  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, New Mexico 87505

**Re: Application for Administrative Approval  
Downhole Commingling  
Basin Dakota Pool and White Wash Gallup/Mancos Pool  
Non-standard Location – White Wash Gallup/Mancos Pool  
Federal 29-1E  
Section 29, T25N, R9W  
San Juan County, New Mexico**

*MANCOS / DAKOTA*

Dear Mr. Jones:

Merrion Oil & Gas (Merrion) requests administrative approval for downhole commingling of the Basin Dakota and the White Wash Gallup/Mancos Pools in the subject wellbore. In addition, Merrion requests administrative approval for a non-standard location for the White Wash Mancos completion. The following information is provided in support of this application.

I. History and Justification

The Federal 29-1E was drilled and completed in 1988 as a Dakota gas well. It has produced approximately 197,000 MCF and is marginally economic at 10 MCFD. To extend the economic life of the well, Merrion proposes to complete the Gallup/Mancos interval and commingle it with the Dakota Formation.

II. Proposed Spacing Units

Exhibit 1 is the ownership plat showing the offset operators. Exhibit 2 shows the C-102 plat for the Basin Dakota Pool with a 320 acre spacing unit in the E/2 of Section 29. Exhibit 3 is the C-102 plat for the White Wash Gallup/Mancos Pool with a 40 acre spacing unit in the NW SE of Section 29.

III. Non-standard Location

The well is closer than 330 feet to the eastern boundary of the White wash 40 acre spacing unit. Therefore, we need approval for a non-standard location. The non-standard location is necessary to utilize the existing wellbore.

IV. Allocation Methodology

Exhibit 4 shows the Dakota production from the Federal 29-1E while Exhibit 5 shows the production history of the Rudman Federal 1, an offset Gallup/Mancos well. Merrion proposes to obtain stabilized production tests on each zone separately and use a fixed percentage to allocate future production between the two zones. If subsequent data indicates the need, additional testing may be done in the future to adjust the allocation percentages.

V. Reservoir Fluid Compatibility

Water analyses are not available for wells in the immediate area. However, the waters of the Mancos and Dakota have been generally determined to be compatible across the basin based on other similar applications to the OCD.

VI. Cross Flow Between Zones

The reservoir pressure of both zones is estimated to be 1500 psig. Therefore, crossflow is not anticipated to be a problem.

VII. Well Ownership Notification

The ownership of the two zones is identical, so no notification is necessary.

VIII. Offset Operator Notification

Exhibit 1 is a plat showing all offset operators. Exhibit 6 is a list of all the offset operators who received a certified copy of this application.

IX. Summary

The current Dakota completion is marginally economic. Reserves for the Gallup zone are not sufficient to justify drilling a new well. Commingling the zones will maximize reserves and protect correlative rights. Therefore, we request your approval of this application.

If you have questions or need additional information, please call me at (505) 327-9801, ext. 114.

Sincerely,



George F. Sharpe  
Manager - Oil & Gas Investments

xc: Offset Operators  
Aztec OCD, BLM-Farmington

**Application of Merrion Oil & Gas  
Downhole Commingling  
Federal 29-1E**

Objections to this application must be sent to the NMOCD within 20 days of receipt of this application. If you do not object, please sign and return this waiver sheet to George Sharpe.

**WAIVER**

\_\_\_\_\_ hereby waives objection to this application.  
Company or Individual Name

\_\_\_\_\_  
Signature Date

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

**Oil Conservation Division**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION TYPE  
  X   Single Well  
 \_\_\_\_\_ Existing Pre-Approved Pools  
 EXISTING WELLBORE  
       X Yes        No

## APPLICATION FOR DOWNHOLE COMMINGLING

**MERRION OIL & GAS CORPORATION**

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**Operator**

**Address**

**FEDERAL 29**

1E

J

29

**25N**

09W

## SAN JUAN

Lease	Well No.	Unit Letter-Section-Township-Range	County
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OGRID No. **014634** Property Code **007787** API No. **30-045-26999** Lease Type: Federal **X** State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	WHITE WASH GALLUP-MANCOS		BASIN DAKOTA
Pool Code			71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5348'-5624'		6367'-92'; 6402'-06'
Method of Production (Flowing or Artificial Lift)	TO BE PUMPED		FLOWING
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	1500 PSI		1500 PSI
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1350		1300
Producing, Shut-In or New Zone	New		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: ---  Rates: N/A	Date:  Rates:	Date: May, 2003  Rates: 10 MCFD; 1 BWD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas will be supplied after % %	Oil Gas after % %	Oil Gas completion % %

### **ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones?  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes   X   No \_\_\_\_\_  
Yes \_\_\_\_\_ No \_\_\_\_\_

**Are all produced fluids from all commingled zones compatible with each other?**

Yes **X** No

**Will commingling decrease the value of production?**

Yes      No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes   X   No

NMOCD Reference Case No. applicable to this well:

**Attachments:**

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  
 Production curve for each zone for at least one year. (If not available, attach explanation.)  
 For zones with no production history, estimated production rates and supporting data.  
 Data to support allocation method or formula.  
 Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  
 Any additional statements, data or documents required to support commingling.

## PRE-APPROVED POOLS

**If application is to establish Pre-Approved Pools, the following additional information will be required:**

List of other orders approving downhole commingling within the proposed Pre-Approved Pools  
List of all operators within the proposed Pre-Approved Pools  
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.  
Bottomhole pressure data.

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

SIGNATURE George S. Hargreave TITLE Petroleum Engineer DATE July 17, 2003



TYPE OR PRINT NAME George F. Sharpe TELEPHONE NO. ( 505 ) 327-9801

E-MAIL ADDRESS

**EXHIBIT 1**  
**FEDERAL 29-1E**  
**Downhole Commingling Application**



**LEGEND**

-  Mancos Spacing Unit
-  Dakota Spacing Unit

All distances must be from the outer boundary of the well.

M.J. BRANNON		FEDERAL 29		Well No.
Letter	Section	Township	Range	County
J	29	25N	9W	San Juan

Initial Footage Location of Well:

1850	feet from the South	line and 1555	feet from the East	line
Sound Level Elev.	Producing Formation	Pool	Dedicated Acreages	Acres
6711	Dakota	Basin Dakota	320	

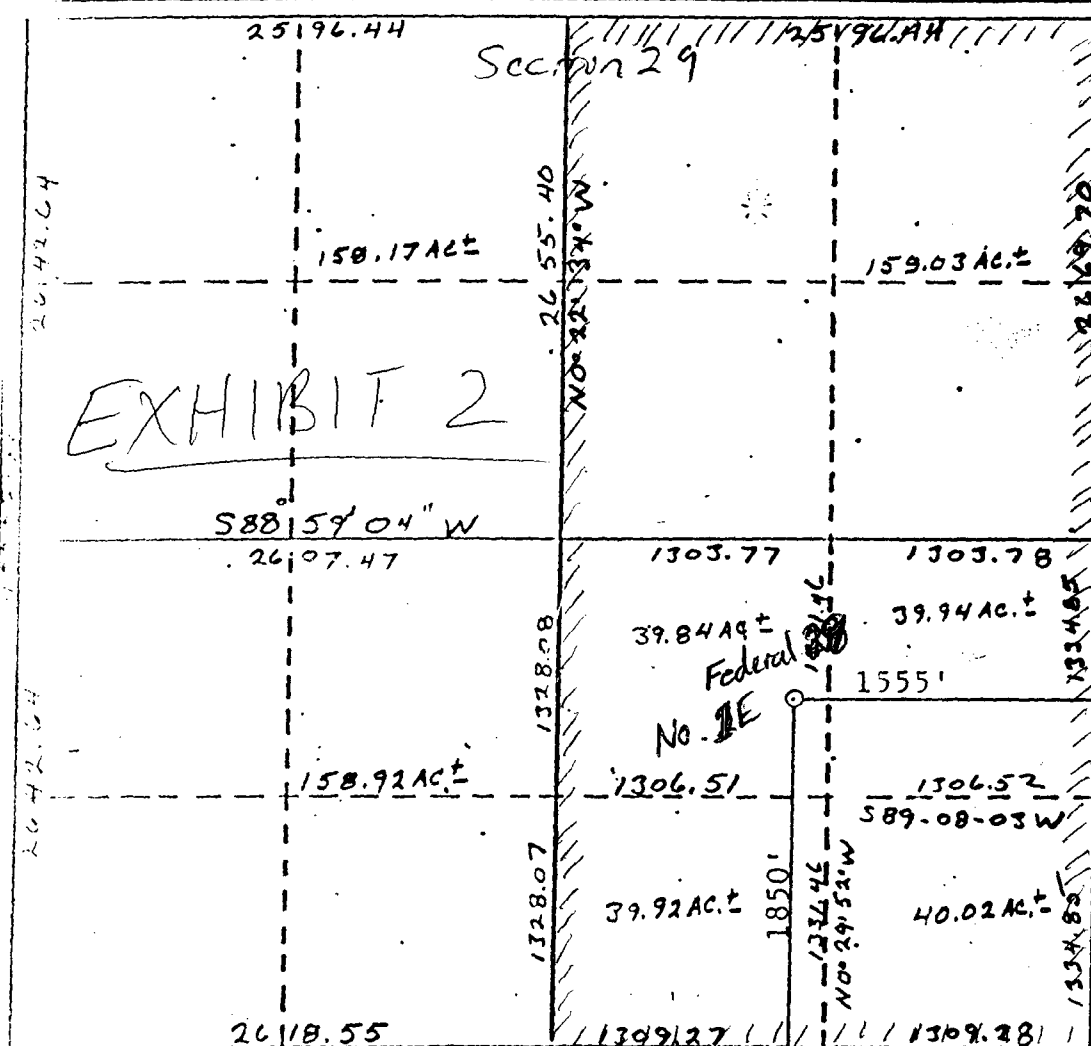
- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

S88° 40' W



## CERTIFICATION

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

*Ned Dollar*

Name

Ned Dollar

Position

Agent

Company

Dollar Services

Date

7-5-88

I hereby certify that the well location shown on this plat was plotted from the original survey made by me under my supervision and that the same is true and correct to the best of my knowledge and belief.

*Cecil B. Tullis*

Date Surveyed

June 28, 1988

Registered Professional Engineer  
and/or Land Surveyor

Cecil B. Tullis

Certificate No.

'9672

S89° 17' W

**District I**  
1625 N. French Dr., Hobbs, NM 86240

**District II**  
**1301 W. Grand Avenue, Artesia, NM 88210**

**District III**  
**1000 Rio Brazos Rd., Aztec, NM 87410**

**District IV**  
**1220 S. St. Francis Dr., Santa Fe, NM 87505**

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

**Submit to Appropriate District Office**

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-26999</b>	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name <b>WHITE WASH GALLUP-MANCOS</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>FEDERAL 29</b>	<sup>6</sup> Well Number <b>1E</b>
<sup>7</sup> OGRID No. <b>014634</b>	<sup>8</sup> Operator Name <b>MERRION OIL &amp; GAS CORPORATION</b>	<sup>9</sup> Elevation <b>6724' KB</b>

## <sup>10</sup> Surface Location

UL or lot no. J	Section 29	Township 25N	Range 09W	Lot Idn NWSE	Feet from the 1850	North/South line SOUTH	Feet from the 1555'	East/West line EAST	County SAN JUAN
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

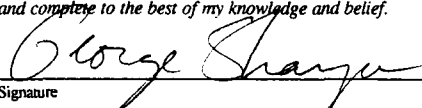
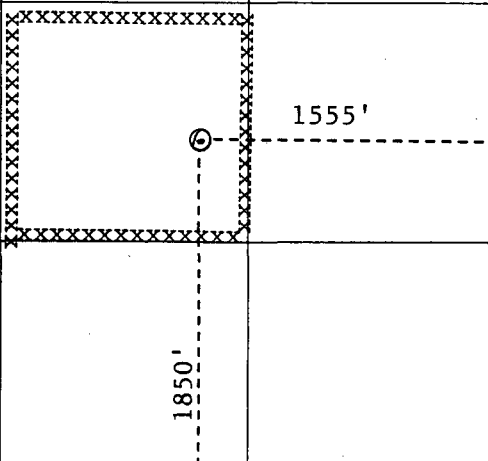
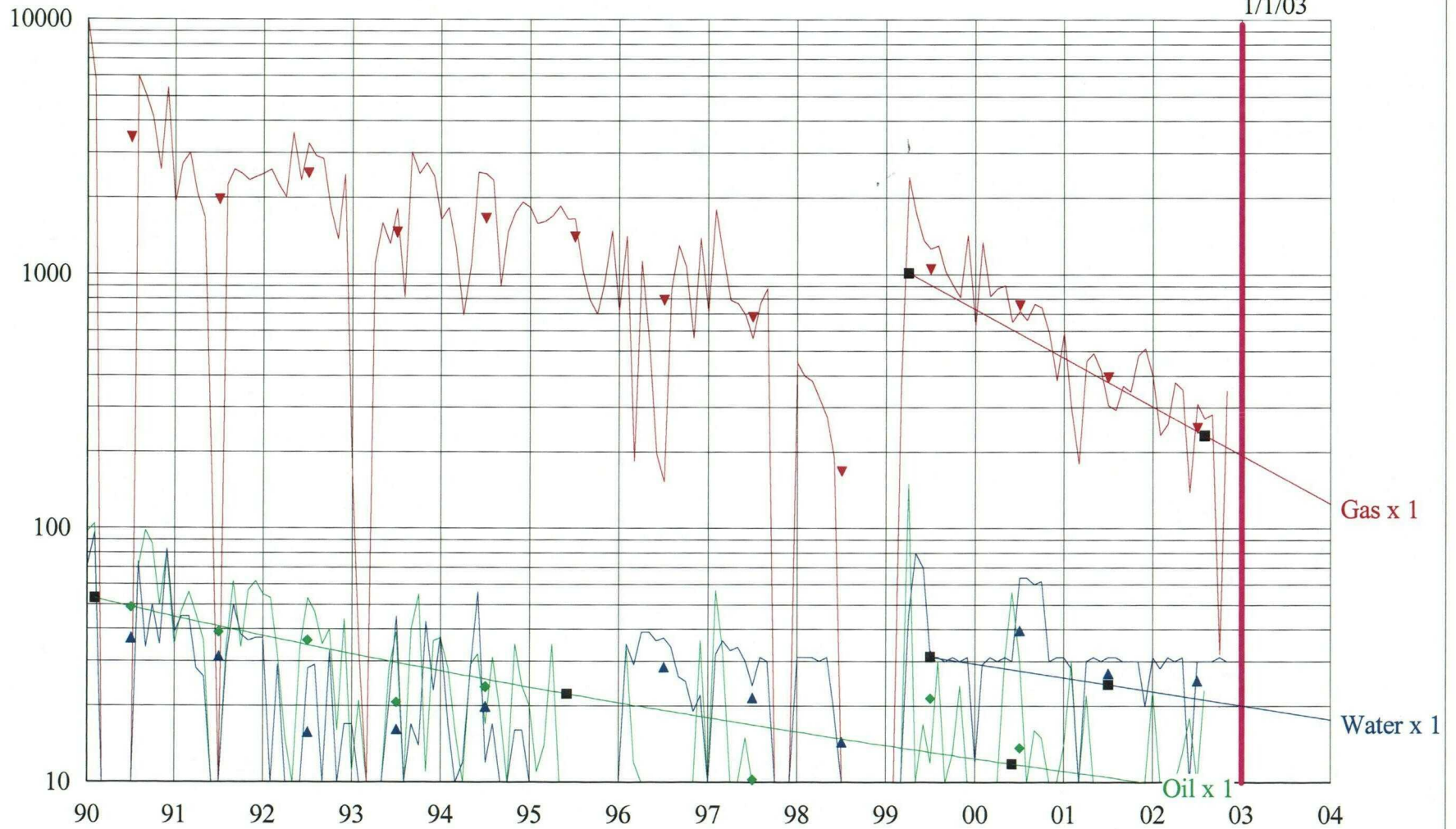
<div>16</div>		<div>17</div> <div>OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div></div> <div>Signature</div> <div>GEORGE F. SHARPE</div> <div>Printed Name</div> <div>PETROLEUM ENGINEER</div> <div>Title and E-mail Address</div> <div>JULY 17, 2003</div> <div>Date</div>
<div>EXHIBIT 3</div>	<div></div>	<div>18</div> <div>SURVEYOR CERTIFICATION</div> <div>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> <div>Certificate Number</div>

Exhibit 4

# Federal 29-1E (1E - 100%), Basin DK

Effective Date  
1/1/03



25104525N09W29J00DK  
Federal 29-1E (1E - 100%)  
Unknown Operator  
Basin DK  
OLD, NM

[34526999]  
Basin DK  
29J 25N 9W

Cumulative:  
Remaining:  
Ultimate:

	Oil (bbl)
Cumulative:	2,983
Remaining:	0
Ultimate:	2,983

	Gas (mcf)
Cumulative:	197,877
Remaining:	0
Ultimate:	197,877

	Water (bbl)
Cumulative:	3,689
Remaining:	0
Ultimate:	3,689

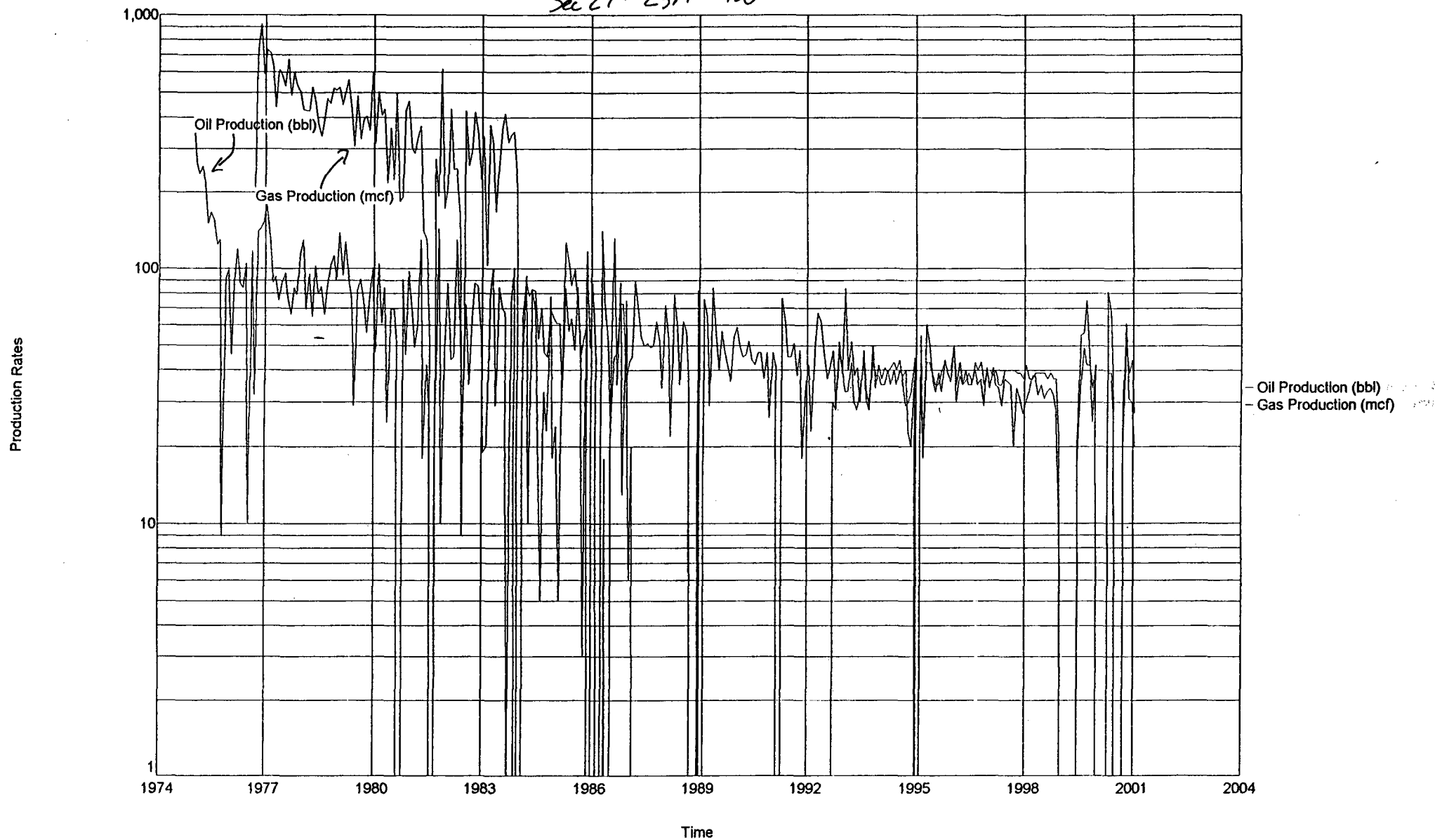


Exhibit 5

Lease Name: RUDMAN FEDERAL  
County, State: SAN JUAN, Unknown  
Operator: NESSCO INCORPORATED  
Field: MULTIPLE  
Reservoir: MULTIPLE  
Location:

RUDMAN FEDERAL - MULTIPLE

Sec 27-25N-9W



**Exhibit “6”**

**Federal 29-1E Commingling Application  
Non-Standard Location Application  
Notification of Offset Operators**

**Energen Resources  
Attn: Rich Corcoran  
2198 Bloomfield Highway  
Farmington, NM 87401**

**RL Bayless Producer, LLC  
Attn: Kevin McCord  
P.O. Box 168  
Farmington, NM 87499-0168**