

**Unocal Oil & Gas Division**  
Unocal Corporation  
3300 North Butler Avenue  
Suite 200  
Farmington, New Mexico 87401  
Telephone (505) 326-7600  
Fax: (505) 326-6145

OIL CONSERVATION DIVISION  
RECEIVED



1994 JAN 10 AM 8 42

January 7, 1994

**CERTIFIED RETURN RECEIPT REQUESTED**

Farmington District

New Mexico Oil Conservation Division  
Attn: Mr. William J. LeMay  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

New Mexico Oil Conservation Division  
Attn: Mr. Frank Chavez  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Dear Sirs:

Union Oil Company of California (UNOCAL) requests permission to downhole commingle production from the Blanco Mesaverde and Basin Dakota formations in the following well:

Rincon Unit No. 126  
800' FSL, 1850' FWL  
Section 27, T27N, R6W  
Rio Arriba County, New Mexico

As provided by Order No. R-9893, administrative approval may be granted without notice and hearing.

As required for an exception to rule 303-A, the following information is attached:

1. An acreage dedication plat showing offset lease ownership.
2. A Form C-116 showing current productivity from each zone.
3. A wellbore diagram with completion detail.
4. A bottomhole pressure from each zone and a calculated adjustment to a common datum.
5. Gas analyses from each zone.
6. An allocation formula for commingled production.
7. A copy of the notification letter sent to all offset operators and the Bureau of Land Management.

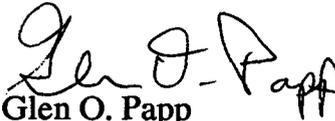
The Blanco Mesaverde formation is currently marginally economic. Commingling will allow for better lift of liquids production and benefits from compression.

Both zones produce essentially dry gas. Therefore, the respective formation fluids are compatible. Also, no crossflow will occur between the commingled zones.

If you have any questions, please contact Dana Delventhal at (505)326-7600. Thank you for your consideration in this matter.

Sincerely,

Union Oil Company of California  
dba UNOCAL

  
Glen O. Papp  
Field Superintendent

Attachments

GOP/DLD/df

# OFFSET LEASE OWNERSHIP

R 6 W

21	22	23
28	27	26
CAULKINS 3547	EL PASO SF079210	CAULKINS 3547
33	34	35

RINCON UNIT #126

T 27 N

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Submit 2 copies to Appropriate District Office.  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

**GAS - OIL RATIO TEST**

Operator		Pool		County									
UNION OIL COMPANY OF CALIFORNIA		BLANCO MESAVERDE/BASIN DAKOTA		RIO ARRIBA									
Address		TYPE OF TEST - (X)		Completion		Special							
3300 NORTH BUTLER, SUITE 200, FARMINGTON, NEW MEXICO 87401		Scheduled <input type="checkbox"/>		X									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
RINCON UNIT	126	N	27	27N	6W	11/93	64/64"	282		-0-	0.4	30	75,000
BLANCO MESAVERDE						11/93	64/64"	292		-0-	1.0	145	145,000
BASIN DAKOTA													

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

*[Signature]*  
Signature  
GLEN O. PAPP  
Printed name and title  
FIELD SUPERINTENDENT

JANUARY 7, 1994  
Date  
(505) 326-7600  
Telephone No.

**INSTRUCTIONS:**  
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.  
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.  
Report casing pressure in lieu of tubing pressure for any well producing through casing.  
(See Rule 301, Rule 1116 & appropriate pool rules.)

# RINCON UNIT #126

800' FSL, 1850' FWL  
SEC. 27, T27N, R6W

13 3/8", 48#, H-40 CSA 317'

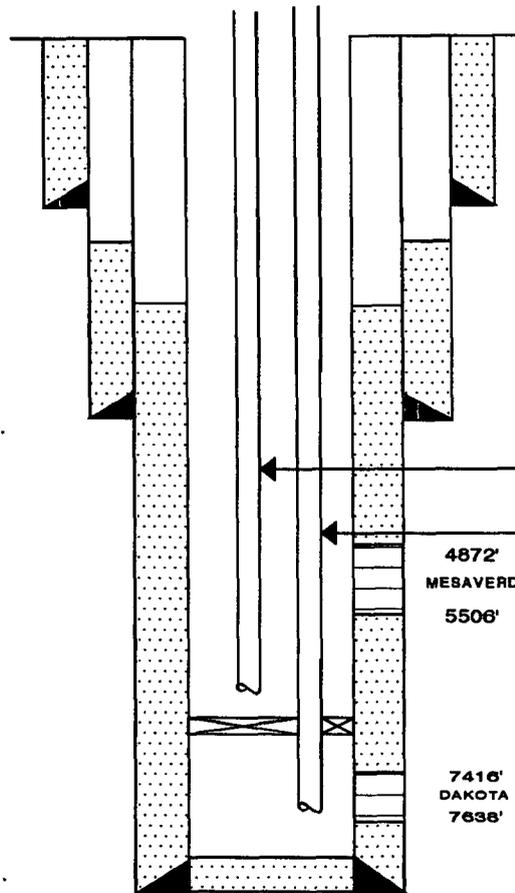
CMT W/ 230 SX  
TOC AT SURFACE.

9 5/8", 40# N-80,  
AND 36# J-55  
CASING SET AT 3385'

CMT W/ 150 SX  
TOC AT 2740' BY TEMP SURV.

BAKER 'N' PKR AT 7069'

7", 23# N-80 AND J-55  
CASING SET AT 7718'  
CMT W/ 695 SX  
TOC AT 3200' BY TEMP SURV.



1 1/4" TBG AT 5528'

2 3/8" TBG AT 7608'

4872'  
MESAVEERDE  
5506'

7416'  
DAKOTA  
7638'

PBD 7670'



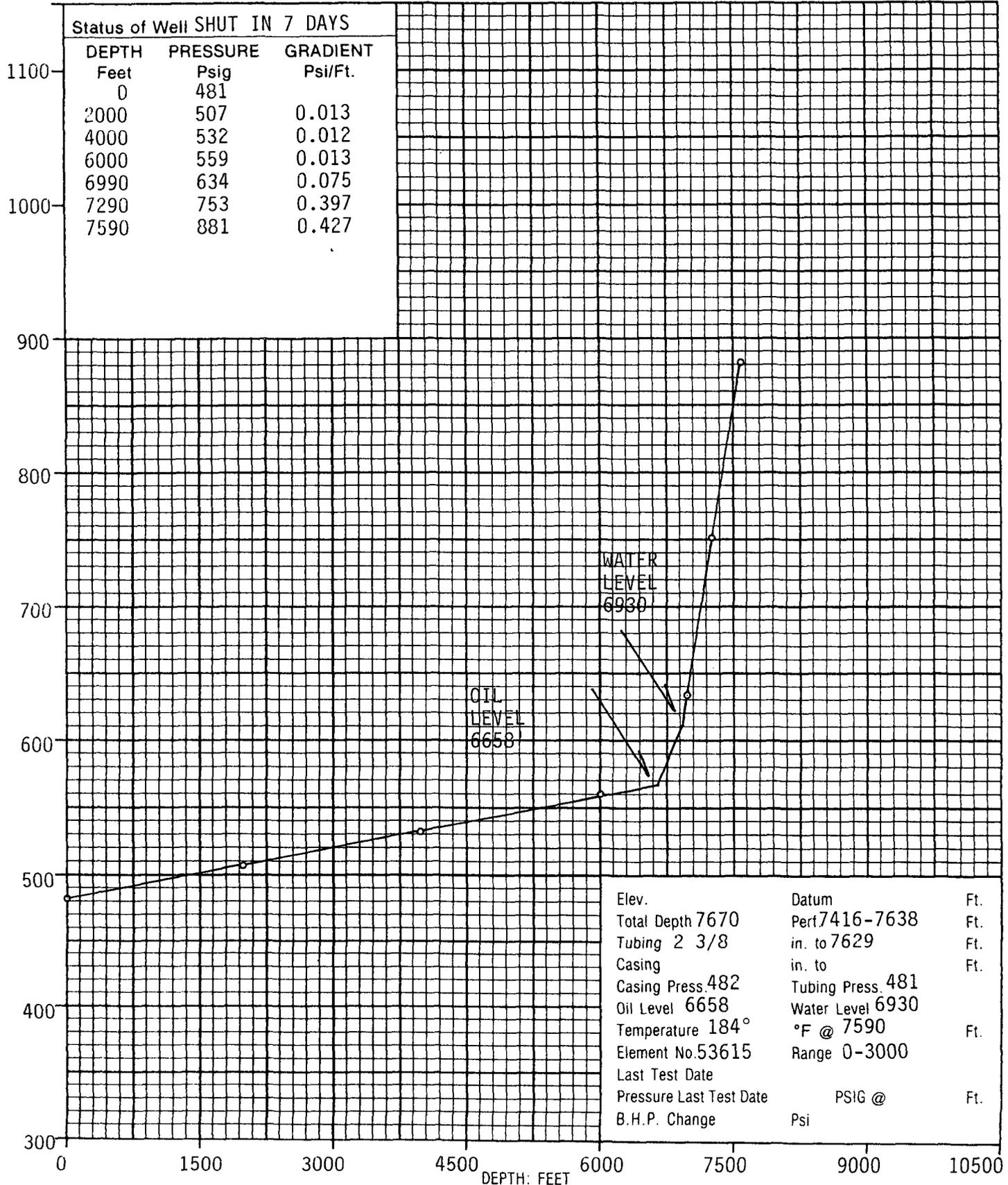
MIDLAND, TEXAS

Company UNOCAL Lease RINCON UNIT Well No. 126  
 Field SAN JUAN BASIN County RIO ARRIBA State N.M.  
 Formation DAKOTA- MESA VERDE Test Date 9-21-93

Status of Well SHUT IN 7 DAYS

DEPTH	PRESSURE	GRADIENT
Feet	Psig	Psi/Ft.
0	481	
2000	507	0.013
4000	532	0.012
6000	559	0.013
6990	634	0.075
7290	753	0.397
7590	881	0.427

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev.	Datum	Ft.
Total Depth 7670	Perf. 7416-7638	Ft.
Tubing 2 3/8	in. to 7629	Ft.
Casing	in. to	Ft.
Casing Press. 482	Tubing Press. 481	
Oil Level 6658	Water Level 6930	
Temperature 184°	°F @ 7590	Ft.
Element No. 53615	Range 0-3000	
Last Test Date		
Pressure Last Test Date	PSIG @	Ft.
B.H.P. Change	Psi	



Page 6 of 19

File \_\_\_\_\_

COMPANY UNOCAL LEASE RINCON UNIT WELL NO. 126  
 FIELD \_\_\_\_\_ COUNTY RIO ARRIBA STATE NEW MEXICO  
 FORMATION MESA VERDE TEST DATE \_\_\_\_\_ TIME \_\_\_\_\_

FLUID LEVEL REPORT

WELL DATA

Elevation \_\_\_\_\_ feet Datum \_\_\_\_\_ feet subsea Total Depth \_\_\_\_\_ feet  
 Perforations 4872-5486 feet Test Depth 5179 feet Packer 7069 feet  
 Tubing Size 1 1/4 in. to 5528 feet Tubing Pressure \_\_\_\_\_ psig  
 Casing Size \_\_\_\_\_ in. to \_\_\_\_\_ feet Casing Pressure 482 psig  
 Oil Level \_\_\_\_\_ feet Water Level \_\_\_\_\_ feet Average Tubing Joint 31.5 feet  
 Well Makes 0 % Oil, 100 % Water Atmospheric Temperature \_\_\_\_\_ °F  
 Status of Well Shut in 7 days Operator JR-SB Unit No. P-204

PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			482
<b>GAS</b>			
Average Tubing Joints <u>31.5</u> ft. Joints to Fluid <u>156</u> Feet to Fluid.	<u>4914</u>	<u>0.013</u>	<u>64</u>
<b>OIL</b>			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
<b>WATER</b>			
Fluid Column Length <u>265</u> Ft. % Water <u>100</u> Water Column Length.	<u>265</u>	<u>0.430</u>	<u>114</u>

PRESSURE AT TEST DEPTH 5179 660  
 Calculated subsurface pressure at datum depth of 5179 feet subsea is 660 psig  
 Last Test Date \_\_\_\_\_ Pressure Last Test \_\_\_\_\_ psig BHP Change \_\_\_\_\_ psi  
 Remarks: \_\_\_\_\_

RINCON UNIT NO. 126

After a 7 day SI period:

$$\text{Mesaverde BHP} = 660 \text{ psi @ } 5179'$$

$$\text{Dakota BHP} = 881 \text{ psi @ } 7590'$$

$$\text{Gas Gradient} = 0.013 \text{ psi/ft}$$

Adjusting to a common datum of 5179':

$$\text{Mesaverde BHP} = 660 \text{ psi}$$

$$\text{Dakota BHP} = 881 - [(0.013)(7590 - 5179)] = 850 \text{ psi}$$

Therefore the reservoir pressures fall within the 50% requirement.

EL PASO NATURAL GAS COMPANY  
VOLUME ACCOUNTING DEPARTMENT  
MEASUREMENT DIVISION  
POST OFFICE BOX 1492  
EL PASO, TEXAS 79978  
PHONE: (915) 541-5267

DATE 6/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE  
94100 UNION OIL COMPANY OF CALIFORNIA  
ATTN: SHARON L. MILLER  
P.O. BOX 671  
MIDLAND, TX 79702-0671

METER NUMBER 72580 - RINCON UNIT NP #126 MV  
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 4/29/93 TYPE CODE 2 - ACTUAL  
SAMPLE DATE 4/20/93 H2S GRAINS 0  
EFFECTIVE DATE 5/01/93 LOCATION D - DANIELS FM  
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.34	.000
H2S	.00	.000
N2	.22	.000
METHANE	89.78	.000
ETHANE	5.41	1.447
PROPANE	1.59	.438
ISO-BUTANE	.43	.141
NORM-BUTANE	.45	.142
ISO-PENTANE	.26	.095
NORM-PENTANE	.15	.054
HEXANE PLUS	.37	.161
	100.00	2.478

SPECIFIC GRAVITY .642

MIXTURE HEATING VALUE  
(BTU @ 14.73 DRY) 1112

RATIO OF SPECIFIC HEATS 1.298

NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY  
 VOLUME ACCOUNTING DEPARTMENT  
 MEASUREMENT DIVISION  
 POST OFFICE BOX 1492  
 EL PASO, TEXAS 79978  
 PHONE: (915) 541-5267

DATE 1/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE  
 94100 UNION OIL CO. OF CALIFORNIA  
 ATTN: SHARON L. MILLER  
 P.O. BOX 671  
 MIDLAND, TEXAS 79702

METER NUMBER 74981 - RINCON UNIT #126 DK  
 OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 12/04/92 TYPE CODE 2 - ACTUAL  
 SAMPLE DATE 12/03/92 H2S GRAINS 0  
 EFFECTIVE DATE 1/01/93 LOCATION F - FARMINGTON  
 EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.39	.000
H2S	.00	.000
N2	.24	.000
METHANE	89.18	.000
ETHANE	5.84	1.562
PROPANE	1.78	.491
ISO-BUTANE	.43	.141
NORM-BUTANE	.46	.145
ISO-PENTANE	.24	.088
NORM-PENTANE	.13	.047
HEXANE PLUS	.31	.135
	100.00	2.609

SPECIFIC GRAVITY .644

MIXTURE HEATING VALUE  
 (BTU @ 14.73 DRY) 1114

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

RINCON UNIT NO. 126  
ALLOCATION FORMULA

<u>GAS PRODUCTION:</u>	Mesaverde Rate	30 MCFD
	Dakota Rate	<u>145 MCFD</u>
	Total Rate	<u>175 MCFD</u>

Therefore,	Mesaverde	17%
	Dakota	83%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0.4 BOPD
	Dakota Rate	<u>1.0 BOPD</u>
	Total Rate	<u>1.4 BOPD</u>

Therefore,	Mesaverde	29%
	Dakota	71%

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January 7, 1994

Farmington District

United States Department of the Interior  
Bureau of Land Management  
1235 La Plata Highway  
Farmington, New Mexico 87401

Dear Sirs:

Union Oil Company of California (UNOCAL) has requested permission from the New Mexico Oil Conservation Division to downhole commingle production from the Blanco Mesaverde and Basin Dakota formations in the following well:

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If you have any objections to this proposal, please notify the NMOCD within twenty (20) days. If you have any questions about this application, please contact Dana Delventhal at (505)326-7600.

Sincerely,

Union Oil Company of California  
dba UNOCAL

A handwritten signature in black ink, appearing to read "Glen O. Papp".

Glen O. Papp  
Field Superintendent

GOP/DLD/df

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Fax: (505) 326-6145



January 7, 1994

Farmington District

Meridian Oil Production Inc.  
P.O. Box 4289  
Farmington, New Mexico 87499

Dear Sirs:

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Glen O. Papp  
Field Superintendent

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3300 North Butler Avenue  
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Telephone (505) 326-7600  
Fax: (505) 326-6145



January 7, 1994

Farmington District

Caulkins Oil Company  
310 North First  
Bloomfield, New Mexico 87413

Dear Sirs:

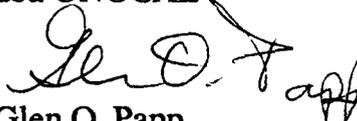
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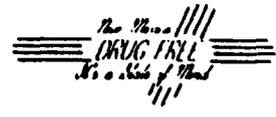
Sincerely,

Union Oil Company of California  
dba UNOCAL



Glen O. Papp  
Field Superintendent

GOP/DLD/df



STATE OF NEW MEXICO  
ENERGY, MINERALS and NATURAL RESOURCES DIVISION  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

ANITA LOCKWOOD  
CABINET SECRETARY

100 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6174

34 JAN 25 1994  
BROCK KING  
GOVERNOR

Date: 1/22/94

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Proposed MC _____	Proposed DHC <u>X</u> _____
Proposed NSL _____	Proposed SWD _____
Proposed WFX _____	Proposed PMX _____
Proposed NSP _____	Proposed DD _____

Gentlemen:

I have examined the application received on 1-10-94

for the Throck Union Unit #126  
OPERATOR LEASE & WELL NO.

N-27-27N-6W and my recommendations are as follows:  
UL-S-T-R

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,  
[Signature]