

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

RECEIVED

FEB - 8 1934

OIL CON. DIV  
FEB 8



POST OFFICE BOX 2083  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

**ADMINISTRATIVE ORDER DHC-962**

Union Oil Company of California  
3300 North Butler Avenue, Suite 200  
Farmington, NM 87401

Attention: Glen O. Papp

*Rincon Unit Well No. 129*

*~~Section 29, Township 27 North, Range 6 East~~ NMPM,  
Rio Arriba County, New Mexico.*

*Blanco-Mesaverde and Basin-Dakota Gas Pools*

Dear Mr. Papp:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 50 barrels per day, and total water production shall not exceed 100 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

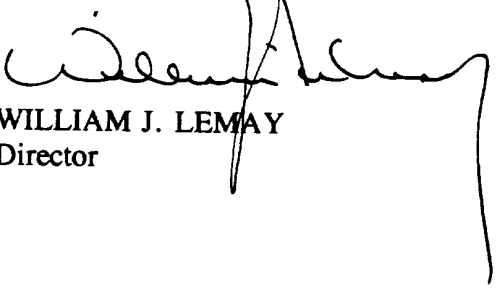
Blanco-Mesaverde Pool	Oil	0%	Gas	8%
Basin-Dakota Pool	Oil	100%	Gas	92%

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 31st day of January, 1994.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

S E A L

WJL/DRC/amg

cc: Oil Conservation Division - Aztec  
US Bureau of Land Management - Farmington

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

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

Date: 1-21-94

*W. M. Ben Stone*

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

RE: Proposed MC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed NSP \_\_\_\_\_

Proposed DHC X \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed PMX \_\_\_\_\_  
Proposed DD \_\_\_\_\_

Gentlemen:

I have examined the application received on 1-4-94  
for the UNOCAL OPERATOR PIÑON UNIT # 121 LEASE & WELL NO.

K-29-27N-6W and my recommendations are as follows:  
UL-S-T-R

*Approved*

Yours truly,

*Eric Paul*

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

**UNOCAL 76**

December 30, 1993

**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

**RECEIVED**  
JAN 04 1994  
OIL CON. DIV  
DIST. 3

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. 129  
1650' FSL, 1840' FWL  
Section 29, 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.

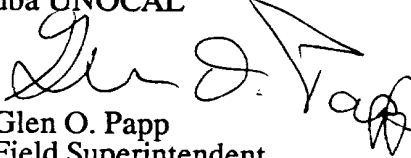
The Blanco Mesaverde formation is currently marginally economic. Commingling will allow for better lift of liquids production and benefits from compression.

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

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# OFFSET LEASE OWNERSHIP

R 6 W

T 27 N

19	20	21
30	29	28
31	32	CAULKINS 3547 33

RINCON UNIT #129

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

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

Form C-116  
Revised 1/1/89

**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														
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		OIL BBL.S.
Rincon Unit	129	K	29	27N	6W	11/93	F 64/64"	292		24	-0-	-0-	11	--
Blanco Mesaverde						11/93	F 64/64"	297		24	-0-	0.8	130	162,500
Basin Dakota														

**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.  
Gravity base will be 0.60.

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

Rule 1116 & appropriate pool rules.)

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

*Glen O. Papp*  
Signature

Glen O. Papp

Field Superintendent

Printed name and title

December 30, 1993

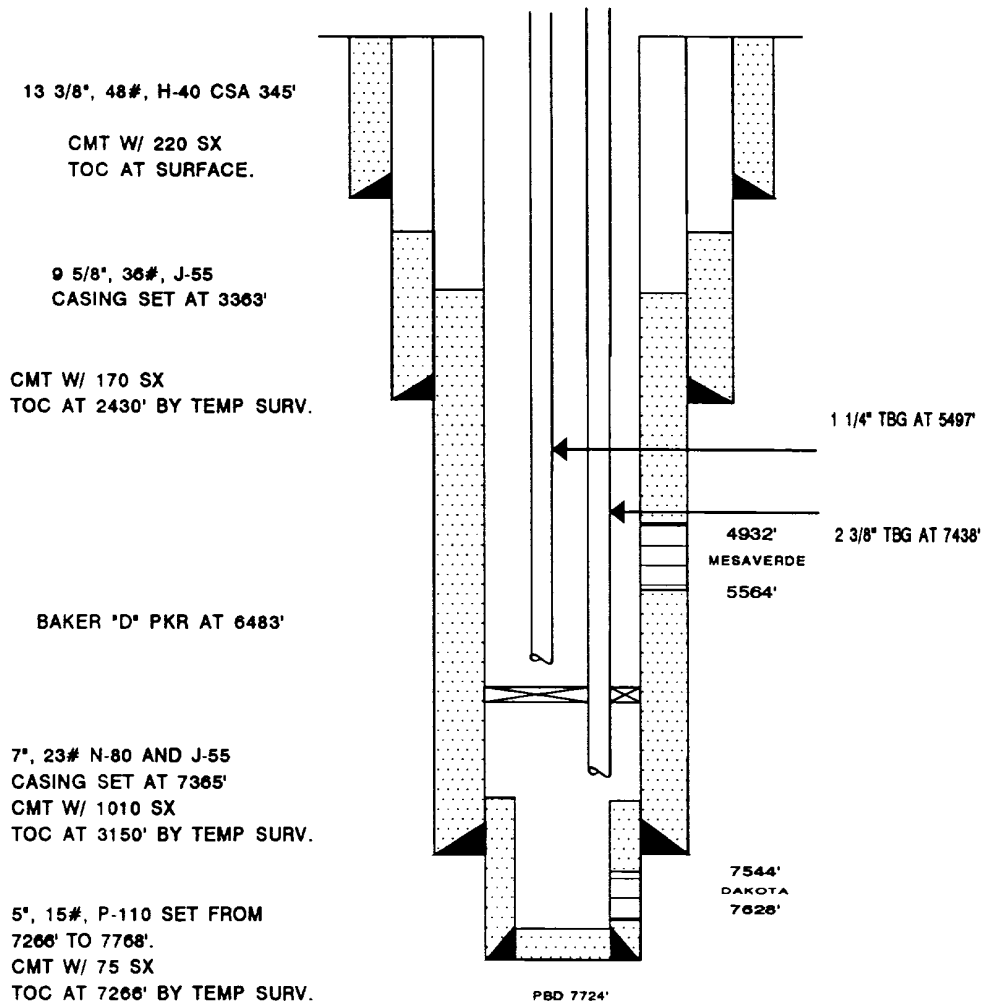
(505) 326-7600

Date

Telephone No.

# RINCON UNIT #129

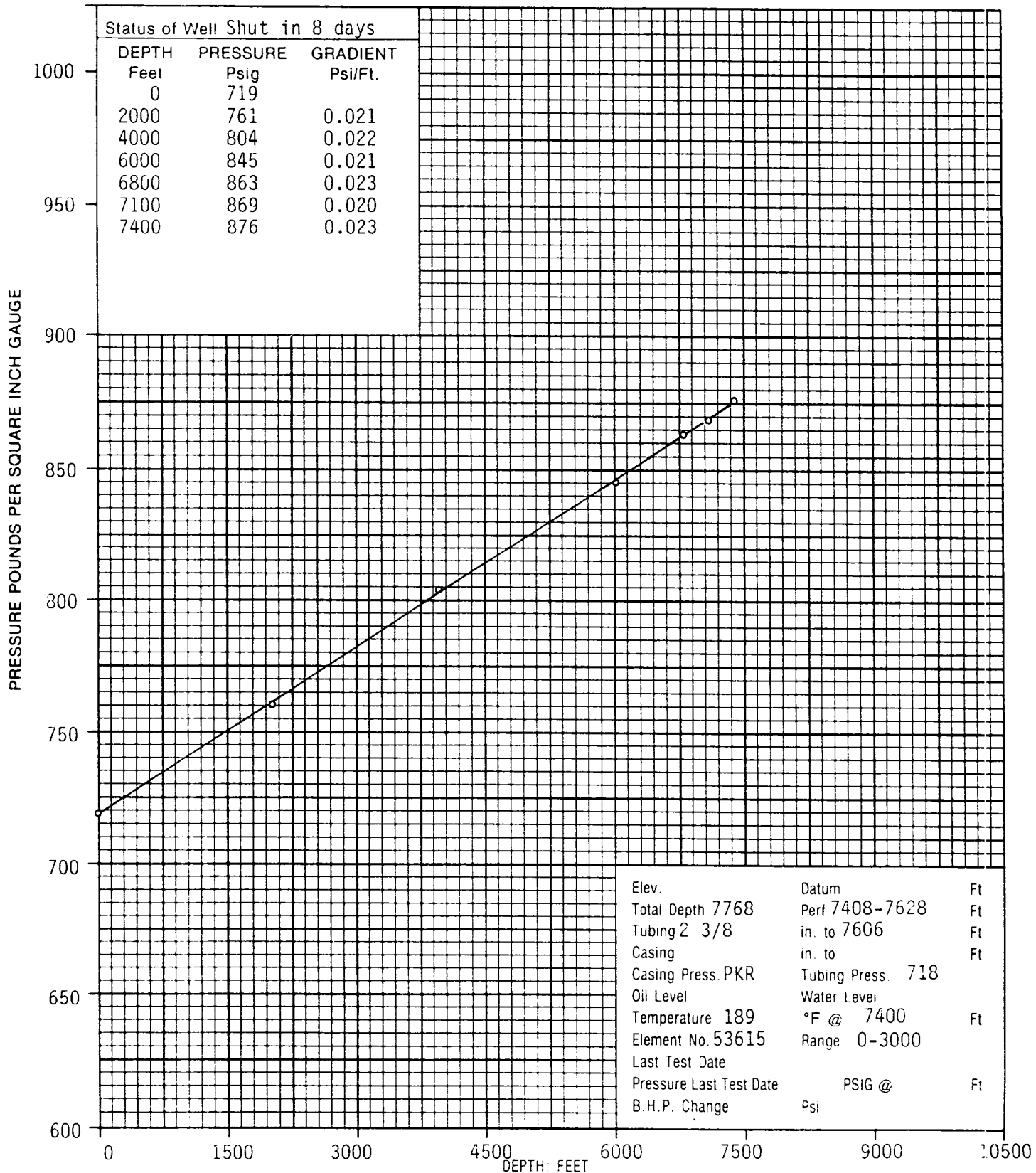
1650' FSL, 1840' FWL  
SEC. 29, T27N, R6W







Company UNOCAL Lease RINCON UNIT Well No 129  
Field SAN JUAN BASIN County RIO ARriba State N.M.  
Formation DAKOTA-MESA VERDE Test Date 9-22-93





Page 12 of 19

File 2-25399-FL&P

COMPANY Unocal Corporation LEASE Rincon Unit WELL NO. 129  
 FIELD \_\_\_\_\_ COUNTY Rio Arriba STATE New Mexico  
 FORMATION Mesa Verde TEST DATE 9-22-93 TIME \_\_\_\_\_

### FLUID LEVEL REPORT

#### WELL DATA

Elevation \_\_\_\_\_ feet Datum \_\_\_\_\_ feet subsea Total Depth \_\_\_\_\_ feet  
 Perforations 5396-5564 feet Test Depth 5480(MP) feet Packer 6490 feet  
 Tubing Size 1 1/4 in. to 5460 feet Tubing Pressure 625 psig  
 Casing Size 7 in. to 7365 feet Casing Pressure 620 psig  
 Oil Level \_\_\_\_\_ feet Water Level \_\_\_\_\_ feet Average Tubing Joint 31.5 feet  
 Well Makes \_\_\_\_\_ % Oil, \_\_\_\_\_ % Water Atmospheric Temperature \_\_\_\_\_ °F  
 Status of Well Shut-in 8 days Operator JR-SB Unit No P-4

#### PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			620
GAS			
Average Tubing Joints <u>31.5</u> ft. Joints to Fluid <u>166</u> Feet to Fluid.	5229	0.015	78
OIL			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
WATER			
Fluid Column Length <u>251</u> Ft. % Water <u>100</u> Water Column Length.	251	0.430	108

#### PRESSURE AT TEST DEPTH

Calculated subsurface pressure at datum depth of 5480 feet subsea is 806 psig  
 Last Test Date \_\_\_\_\_ Pressure Last Test \_\_\_\_\_ psig BHP Change \_\_\_\_\_ psi  
 Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

After a 7 day SI period:

Mesaverde BHP = 806 psi @ 5480'

Dakota BHP = 876 psi @ 7400'

Gas Gradient = 0.021 psi/ft

Adjusting to a common datum of 5480':

Mesaverde BHP = 806 psi

Dakota BHP =  $876 - [(0.021)(7400 - 5480)] = 836$  psi

Therefore the reservoir pressures fall within the 50% requirement.

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

DATE 4/08/93

MAILEE  
94100

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

METER NUMBER 72591 - RINCON UNIT #129 MV  
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	3/12/93	TYPE CODE	2 - ACTUAL
SAMPLE DATE	3/10/93	H2S GRAINS	0
EFFECTIVE DATE	4/01/93	LOCATION	F - FARM BECK
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.96	.000
H2S	.00	.000
N2	.59	.000
METHANE	82.80	.000
ETHANE	7.89	2.111
PROPANE	4.31	1.188
ISO-BUTANE	.87	.285
NORM-BUTANE	1.25	.394
ISO-PENTANE	.47	.172
NORM-PENTANE	.34	.123
HEXANE PLUS	<u>.52</u>	<u>.227</u>
	100.00	4.500

SPECIFIC GRAVITY .708

MIXTURE HEATING VALUE  
(BTU @ 14.73 DRY) 1219

RATIO OF SPECIFIC HEATS .000

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 10/08/92 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE

94100 UNION OIL CO. OF CALIFORNIA  
ATTN: MIDLAND PRODUCTION DEPT.  
P.O. BOX 671  
MIDLAND, TEXAS 79702

METER NUMBER 72592 - RINCON UNIT #129 DK  
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 5/03/92 TYPE CODE 2 - ACTUAL  
SAMPLE DATE 4/30/92 H2S GRAINS 0  
EFFECTIVE DATE 9/01/92 LOCATION F - FARMINGTON  
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.62	.000
H2S	.00	.000
N2	1.85	.000
METHANE	85.92	.000
ETHANE	6.49	1.736
PROPANE	3.09	.852
ISO-BUTANE	.47	.154
NORM-BUTANE	.78	.246
ISO-PENTANE	.22	.080
NORM-PENTANE	.17	.062
HEXANE PLUS	.39	.170
	100.00	3.300

SPECIFIC GRAVITY .667

MIXTURE HEATING VALUE  
(BTU @ 14.73 DRY) 1143

RATIO OF SPECIFIC HEATS 1.295

NO TEST SECURED FOR H2S CONTENT

RINCON UNIT NO. 129  
ALLOCATION FORMULA

<u>GAS PRODUCTION:</u>	Mesaverde Rate	11 MCFD
	Dakota Rate	<u>130</u> MCFD
	Total Rate	<u>141</u> MCFD

Therefore,	Mesaverde	8%
	Dakota	92%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0.0	BOPD
	Dakota Rate	<u>0.8</u>	BOPD
	Total Rate	<u>0.8</u>	BOPD

Therefore,	Mesaverde	0%
	Dakota	100%

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

**UNOCAL 76**

December 30, 1993

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:

Rincon Unit No. 129  
1650' FSL, 1840' FWL  
Section 29, T27N, R6W  
Rio Arriba County, New Mexico

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

  
Glen O. Papp  
Field Superintendent

GOP/DLD/df

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

**UNOCAL 76**

December 30, 1993

Farmington District

Caulkins Oil Company  
310 North First  
Bloomfield, New Mexico 87413

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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1650' FSL, 1840' FWL  
Section 29, T27N, R6W  
Rio Arriba County, New Mexico

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

  
Glen O. Papp  
Field Superintendent

GOP/DLD/df