

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

RELEASE 9.7.93

OIL CONSERVATION DIVISION
RECEIVED



93 AUG 14 AM 8 59

August 12, 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

Dear Sirs:

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

Rincon Unit No. 182E
1690' FSL, 1500' FEL
Section 26, 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.

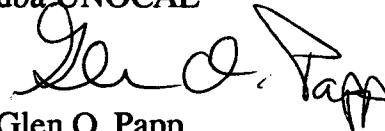
The Undesignated Gallup formation is uneconomic to drill as a stand alone well. To develop these reserves, a dual or commingled completion is required. We estimate an ultimate recovery of approximately 300 MMCF from the Gallup horizon, which would otherwise remain undeveloped. Also, commingling will 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

A handwritten signature in black ink, appearing to read "Glen O. Papp", is written over the typed name.

Glen O. Papp
Field Superintendent


Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 6 W

T 27 N

22	23	EL PASO SF079365	EL PASO 24
27	RINCON UNIT #182E 26 	EL PASO SF079367B	25
EL PASO SF079210	CAULKINS 3547	CAULKINS 3547	EL PASO E290-28 E290-6
34	35	36	E290-36 E290

Submit 2 copies to Appropriate
District Office.

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County									
Union Oil Company of California		Undesignated Gallup/Basin Dakota		Rio Arriba									
Address		TYPE OF TEST - (X)		Completion		Special							
3300 N. Butler, Suite 200, Farmington, NM 87401		Scheduled		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	182E	J	26	27N	6W								
Undesignated Gallup						1/20/93	F 12/64"	430		24	-0-	-0-	289
Basin Dakota						3/27/93	F 15/64"	470		24	8	-0-	517

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.)

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

Signature

Glen O. Papp

Printed name and title

Field Superintendent

Date

August 12, 1993

(505) 326-7600

Telephone No.

RINCON UNIT NO. 182 E
1690' FSL, 1500' FEL, SEC 26, T27N-R6W
RIO ARRIBA COUNTY, NM

KB Datum 13' Above GL
Ground Elevation = 6644'

12-1/4" Hole

TOP of CMT @ 150' by Cement Bond Log
In 5-1/2" Production String

8-5/8" 24# @ 370'
CMT'D / 250 SX
CIRC TO SURF

DV TOOL @ 3527'
Stage #3 CMT'D w/ 830 sxs

7-7/8" Hole

GALLUP

6822-82, 6914-48, 7016-26' W/ 4 SPF

Sliding Sleeve
@ 7027'

Gulberson UNI-VI
PKR @ 7036'

TUBING DETAIL

245 JTS 2-3/8" 4.7# EUE 8RD
J-55 TBG
(FHD @ 7737')

Top of Class 'B' CMT @ 7752'
Cast Iron Bridge Plug @ 7757'

PBTD = 7840'

TD = 7888'

DV TOOL @ 5988'
Stage #2 CMT'D w/ 410 sxs

DAKOTA

7484-94, 7510-18, 7570-80, 7606-26'
7656-74, 7680-90, 7696-7738' W/ 4 SPF

7767-7818' W/ 4 SPF

5-1/2", 17# N-80 & J-55 @ 7886'
Stage #1 CMT'D w/ 530 sxs

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company Unocal Lease Rincon Well 182-E
County Rio Arriba State N.Mex. Date 3-18-93
Shut-In _____ Zero Point K.B. Tbg. Pressure 1155
Casing Pressure _____ Tbg. Depth _____ Casing Perf. _____
Max. Temp. _____ Fluid Level 6000

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	1156	- - -
1000	1183	.027
2000	1219	.036
3000	1245	.026
4000	1271	.026
5000	1298	.027
6000	1323	.025
7000	1749	.426
7511	1964	.420
7611	2004	.400

FLUID LEVEL SURVEY

FIELD: RINCON STATE: N. MEX. DATE:

[illegible]

AVERAGE TUBING LENGTH:
REMARKS:

RINCON UNIT NO. 182 E

After a 7 day SI period:

$$\text{Gallup BHP} = 1729 \text{ psi @ } 6924'$$

$$\text{Dakota BHP} = 2004 \text{ psi @ } 7611'$$

$$\text{Gas Gradient} = 0.026 \text{ psi/ft}$$

Adjusting to a common datum of 6924':

$$\text{Gallup BHP} = 1729 \text{ psi}$$

$$\text{Dakota BHP} = 2004 - [(0.026)(7611 - 6924)] = 1986 \text{ psi}$$

Therefore the reservoir pressures fall within the 50% requirement.



WELL ANALYSIS COMPARISON

LEASE: RINCON #182E

MARCH 29, 1993

DATE:	1/19/93	3/26/93
NO.:	30002	30004
	GL	DK
	MOLE %	MOLE %
NITROGEN	0.174	0.101
CO2	1.038	1.193
METHANE	88.920	88.022
ETHANE	6.381	6.153
PROPANE	1.979	2.188
I-BUTANE	0.353	0.551
N-BUTANE	0.520	0.717
I-PENTANE	0.216	0.410
N-PENTANE	0.146	0.245
HEXANE+	0.273	0.420
BTU'S	1123.3	1148.0
GPM	2.7828	3.0772
SPEC GRAV	0.6432	0.6608

RINCON UNIT NO. 182 E
ALLOCATION FORMULA

GAS PRODUCTION:

Gallup Rate	289 MCFD
Dakota Rate	<u>517</u> MCFD
Total Rate	<u>806</u> MCFD

Therefore,

Gallup	36%
Dakota	64%

OIL PRODUCTION:

Gallup Rate	0 BOPD
Dakota Rate	<u>0</u> BOPD
Total Rate	<u>0</u> BOPD

Therefore,

Gallup	50%
Dakota	50%

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August 12, 1993

Farmington District

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

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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

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August 12, 1993

Farmington District

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

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August 12, 1993

Farmington District

Caulkins Oil Company
310 North First
Bloomfield, New Mexico 87413

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