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 8.23.93

GIL GONSERVE FOR DIVISION RECEIVED

⁷98 AU: 2 AU 9 12



July 28, 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 Blanco Mesaverde and Basin Dakota formations in the following well:

Rincon Unit No. 184M 790' FSL, 1025' FEL Section 15, T27N, R7W 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 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 750 MMCF from the Mesaverde 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

Glen O. Papp

Field Superintendent

Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 7 W

7-		4	184M		23
EL PASO 78972 1 O		15	RINCON UNIT #184M		8
EL PASO 78570 9	78640	EL PASO E4425 16	EL PASO E2825	EL PASO 78640	7

T 27 N

Form C-116 Revised 1/1/89

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

Submit 2 copies to Appropriate

District Office.

DISTRICT

GAS - OH, RATIO TEST

- According to																
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Union Oil Company of California	fornia				B18	Blanco Mesaverde/Basin Dakota	erde	/Basin	Dakota				Rio Arriba	riba		
Address							TYPE OF	<u></u>		[[,	L	
3300 N. Butler, Suite 200, Farmington, NM 87401	Farm	ingto	n.	1 87	401	1	TEST - (X)	8	Scheduled		J	Completion	×	S	Special	_
	WELL		LOCATION	NO.		DATE OF	SUI	TACK.	Ş	DAILY	LENGTH	æ	I OL	NG TEST		GAS - OIL
LEASE NAME	Ö	Ω	တ	+	æ	TEST	ATS	SIZE	PRESS.	ALLOW-	HOURS FOURS	WATER BBLS.	GRAV.	OIL BBLS.	GAS . M.C.F.	CU.FT/BBL.
Rincon Unit	184M	Д.	15	27N	MΖ							,				
Blanco Mesaverde						12/28/92	F	14/64"	165		24	-01		-0-	16	1
Basin Dakota						12/16/92	<u>F4</u>	17/64"	300		24	4		Π	347	347,000
							1									

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 0. Papp Field Superintendent

Printed name and title

July 28, 1993 (505)326-7600

Date

Telephone No.

RINCON JNIT NO. 184-M 790' FSL, 102. FEL SEC 15 T27N R7W RIO ARRIBA COUNTY, NM

12 1/4" Hole KB DATUM = 12' ABOVE G.L. **GROUND ELEVATION = 6616'** 8-5/8" 24# J-55 @ 380' Cmt'd w/ 240 SX - CIRC To Surface DV TOOL @ 3621' 7-7/8" Hole Cmt'd Stage #3 w/ 889 sxs- Circ To Surface Squeezed Leak In DV Tool w/85 exe TOC @ 4300' By Cement Bond Log UPPER MESA VERDE 4824-42, 4876-92, 4922-36, 4974-84, 5046-62, 5130-52', w/4 SPF "XO" Sliding Sleeve @ 5470 **LOWER MESA VERDE** 5378-5430', w/4 SPF Guiberson Uni Vi pkr @ 5479' DV TOOL @ 5744' Cmt'd Stage #2 w/330 sxs TUBING DETAIL 241 Jts 2-3/8" EUE 8rd J-55 @ 7634 DAKOTA 7406-38, 7530-52, 7566-72, 7584-7606, 7614-20, 7644-60', w/4 SPF 5-1/2" 17# N-80, K-55 PBTD = 7708'@ 7750' Cmt'd Stage 1 w/ 400 sxs

TD @ 7750'

B & R SERVICE, INC.

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

ncon Well <u>184-E</u>
M. Date 12-9-92
K.B. Tbg. Pressure 525
Casing Perf
4990
<u>IG</u> <u>GRADIENT</u>
27
.011
•011
.012
74 .013
.066
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.435
40 .415

B & R SERVICE , INC. P.O. BOX 1048
FARMINGTON, N.M.

FLUID LEVEL SURVEY

		FLUID PRESSURE ABCVE AT DATUM DATUM .	77' 1231 PSIG			1753 ك511 ،4					-
RIBA	封		1 607 '		,,	1819,					
RIO A	STAIL: N. MEA.	FEET TO FLUID	3432			3308,					
CCUNTY: RIO ARRIBA		JOINTS TO FLUID	110	130	152	105			 ,		
3		CASING PRESSURE PSIG	540	750	076	965					
		DATUM	MID PERE. SO39'			MID PERF					
	_ DATE:	ELEV.									
		TIME									
UNOCAL CORPORATION		LOCATION						-			
	FIELD: RINCON	LEASE AND WELL NO.	M 851 NOONTA CO/OE/OI	11 /01 /02 DINCON 151 M		11/04/92 RINCON 1/1 M	TILLY WINDER TOTAL				

AVERAGE TUBING LENGTH: REMARKS:

RINCON UNIT NO. 184 M

After a 7 day SI period:

Mesaverde BHP = 1753 psi @ 5127'

Dakota BHP = 1740 psi @ 7595'

Gas Gradient = 0.013 psi/ft

Adjusting to a common datum of 5127':

Mesaverde BHP = 1753 psi

Dakota BHP = 1740 - [(0.013)(7595 - 5127)] = 1708 psi

Therefore the reservoir pressures fall within the 50% requirement.



WELL ANALYSIS COMPARISON

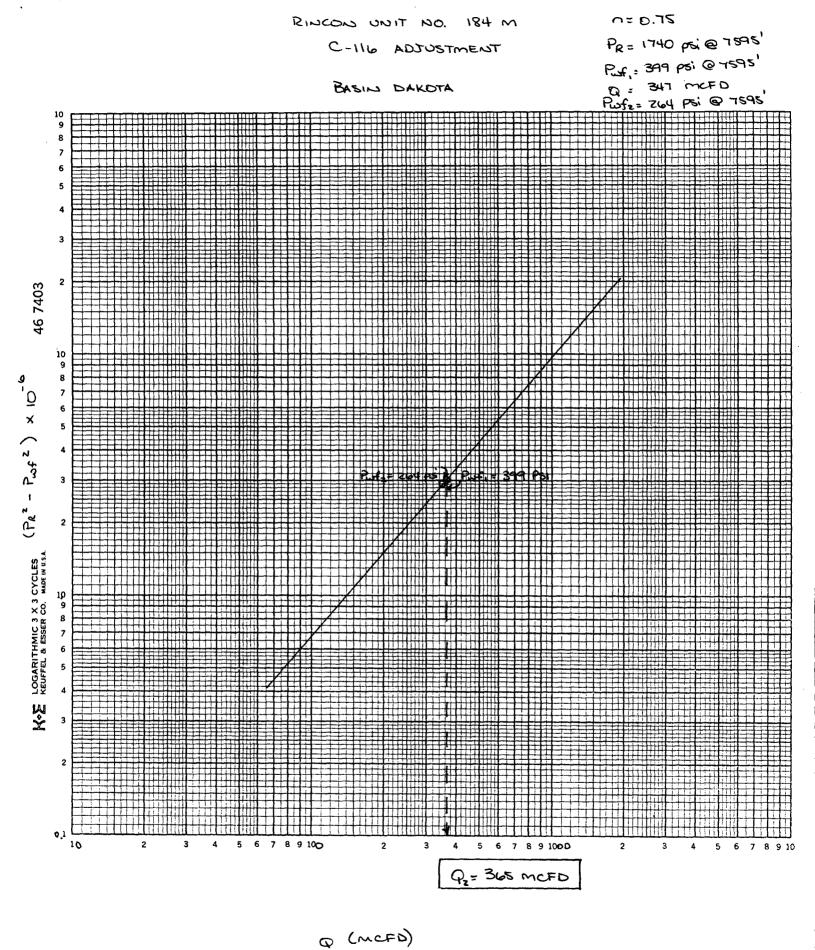
LEASE: RINCON 184M

DECEMBER 21, 1992

DATE: 12/9/92 12/16/92

NO.: 20043 20046 MESAVERDE DAKOTA

	MOLE %	MOLE %
NITROGEN CO2 METHANE ETHANE PROPANE	0.702 0.435 86.677 6.988	0.169 1.200 91.707 4.909
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE+	3.594 0.498 0.663 0.171 0.129 0.143	1.145 0.198 0.283 0.114 0.086 0.189
BTU'S	1152.7	1080.4
GPM	3.4034	1.9380
SPEC GRAV	0.6578	0.6182



RINCON UNIT NO. 184 M ALLOCATION FORMULA (BASED ON ADJUSTED C-116)

GAS PRODUCTION:

Mesaverde Rate

16 MCFD

Dakota Rate

365 MCFD

Total Rate

381 MCFD

Therefore,

Mesaverde

4%

Dakota

96%

OIL PRODUCTION:

Mesaverde Rate

0 BOPD

Dakota Rate

1 BOPD

Total Rate

1 BOPD

Therefore,

Mesaverde

0%

Dakota

100%

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UNOCAL 76

July 28, 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:

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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

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



July 28, 1993

Farmington District

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

Dear Sirs:

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Sincerely,

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Glen O. Papp

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