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OFE CONSERVATION DIVISION RECEIVED

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UNOCAL

February 8, 1995

Unocal Oil & Gas Division Unocal Corporation

Bloomfield, New Mexico 87413 Telephone (505) 632-1811

New Mexico Oil Conservation Division Attn.: Mr. William J. LeMay PO Box 2088 Santa Fe, New Mexico 87504-2088 (Certified Return Receipt No.: P909423600)

New Mexico Oil Conservation Division Attn.: Mr. Frank Chavez 1000 Rio Brazos Road Aztec, New Mexico 87410 (Certified Return Receipt No.: P909423601)

Dear Sirs:

Union Oil Company of California d.b.a. UNOCAL requests permission to downhole commingle commonly owned production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
171 <b>M</b>	1645' FSL, 1775' FEL, S21, T27N, R6W

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

This well was spud in July, 1992 and 5-1/2", 15# production casing was set to TD at 7706'. The well was then completed in the Blanco Mesa Verde and Basin Dakota horizons. The production equipment consists of a concentric string of 2-3/8", 4.7#, J-55, 8rd tubing and 1-1/2"  $\times$  0.087" wt coiled tubing with both zones isolated by a production packer. This completion was designed to flow the Mesa Verde gas up the tubing by coiled tubing annulus and the Dakota gas up the coiled tubing. Shortly after the well was put on production the tubing by coiled tubing annulus plugged off with sand and paraffin. The Mesa Verde horizon was then produced up the casing by tubing annulus. Production is minimal because the Mesa Verde is logged off with liquids and frac sand.

UNOCAL intends to pull the coiled tubing string and production packer and produce the Dakota and Mesa Verde, downhole commingled, up one string of 2-3/8" tubing. To date the Dakota has produced approximately 180 MMcf of gas as opposed to 30 MMcf by the Mesa Verde. Downhole commingle will allow the economical recovery of an estimated 530 MMcf of gas from the Mesa Verde horizon without cross flow from the Dakota horizon.

UNOCAL will calculate an allocation factor for each horizon based on individual production tests as requested by BLM letter "Rincon Unit (GC) 3162.3-2 (07327)".

In 1993, UNOCAL tested twenty two Blanco Mesa Verde / Basin Dakota wells for downhole commingling potential in the Rincon Unit. Each well qualified for an administrative downhole commingle; UNOCAL requested and received approval for thirteen of these wells. In 1994, UNOCAL received, prior to spud, administrative approval to downhole commingle nine Blanco Mesa Verde / Basin Dakota wells based on bottom hole pressure data obtained from the twenty two wells tested in 1993. Four of these wells were drilled and completed downhole commingled.

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

1. Acreage dedication plat showing offset lease ownership.

2. Proposed wellbore schematic with completion detail and production curves.

3. Bottomhole pressure data, for twenty two wells tested in 1993 and nine new wells tested in 1994, adjusted to datum.

- 4. Gas analysis summary sheet.
- 5. Copies of notification letters sent to all offset operators (if any) and BLM.

Both zones produce gas with some oil and water. Oil and water production from both zones will not exceeded 50 bbl/day. To date UNOCAL has not experienced any fluid compatibility problems from commingled wells drilled in 1993 and 1994.

If you have any questions, please contact me at (505) 632-1811 ext. 14. Thank you for your consideration in this matter.

Sincerely,

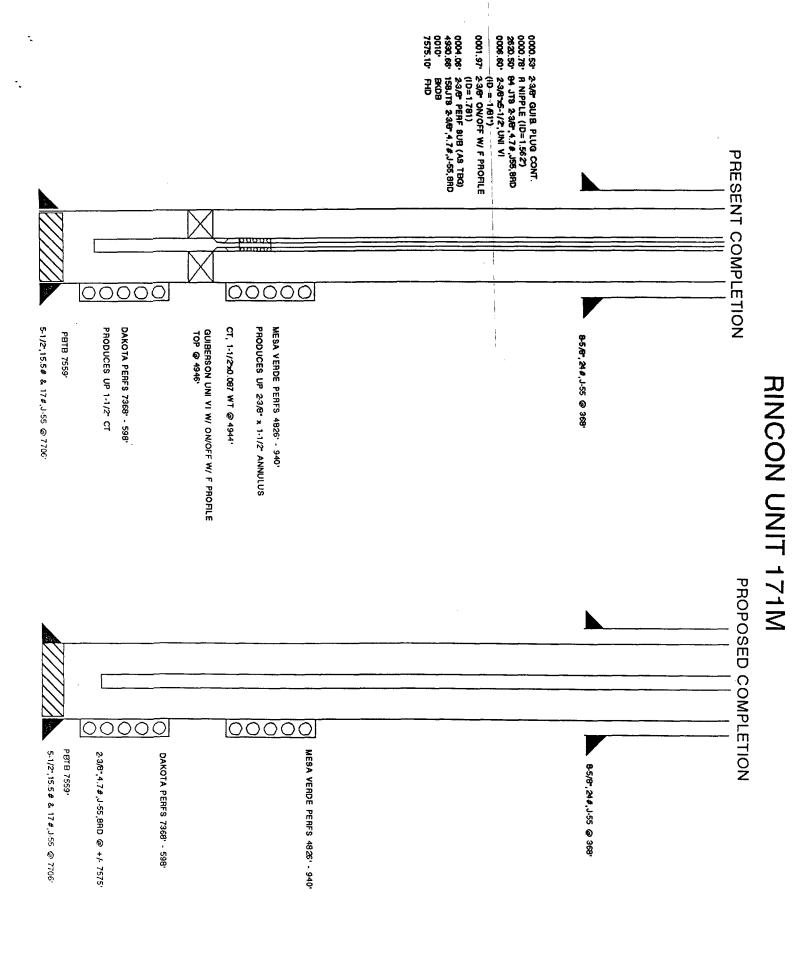
Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggétt

Production Engineer

	UNOCAL OPERATED	29		UNOCAL OPERATED	20	UNOCAL OPERATED	. 17
	UNOCAL OPERATED	28	RU 171M LEASE NO. SF 079366 320 ACRES		21	UNOCAL OPERATED	T27N R6W 16
	UNOCAL OPERATED	27		UNOCAL OPERATED	22	MERIDIAN OPERATED	15
UNOCAL, RINCON UNIT, 171M						TOWNSHIP / RANGE	RINCON UNIT BOUNDARY

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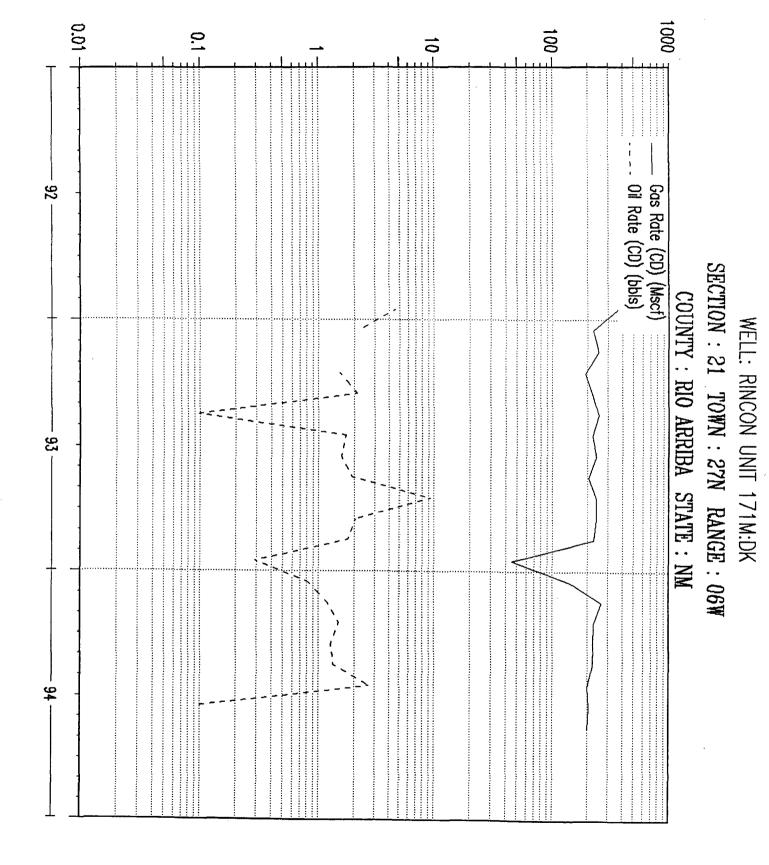


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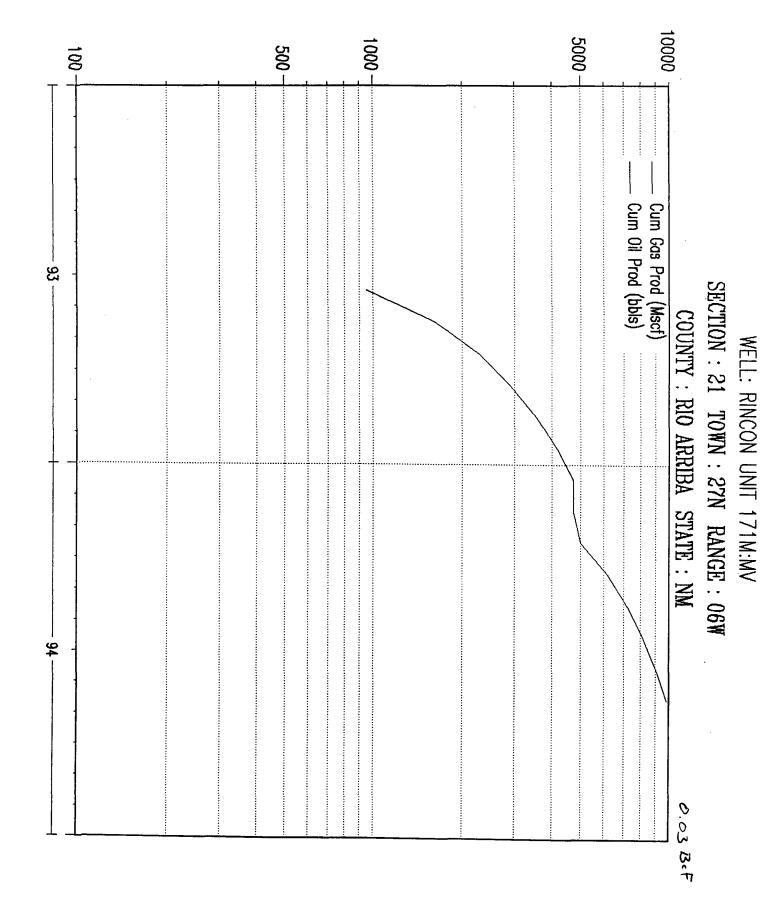
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	ELL: RINCON UNIT 171M:DK : 21 TOWN : 27N RANGE : 06W VTY : RIO ARRIBA STATE : NM	Gas Pr Oil Pro



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58				·	WELL: RINCON UNIT 171M:MV SECTION : 21 TOWN : 27N RANGE : 06W COUNTY : RIO ARRIBA STATE : NM Gas Rate (CD) (Mscf) Oil Rate (CD) (bbls)
94				7	UNIT 171M:MV : 27N RANGE : 06W RIBA STATE : NM

### RINCON UNIT DK/MV COMMINGLE BOTTOMHOLE PRESSURE DATA

		MV BHP	DK BHP	
_	WELL	(PSI)	(PSI)	% DIFF
		4450	1690	32
*	1E	1156		
*	125M	789	1548	
*	126	660	850	22
*	126M	921	1607	43
*	127	512	580	12
*	127M	716	1280	44
*	128	801	781	2
**	128M	1001	1000	0
*	129	806	836	4
*	129M	1053	935	11
*	130	586	622	6
*	135	481	736	35
*	136E	1139	2199	48
*	137	400	686	42
**	138E	684	1100	38
**	139E	761	1300	41
*	149	471	521	10
*	151M	1228	1862	34
*	158M	1231	766	38
*	159M	603	583	3
*	167M	1007	1909	47
*	170M	940	1752	46
*	175M	735	1108	34
*	180M	585	788	26
*	184M	1753	1708	3
**	302	654	1225	47

#### DK ZONE TAKEN AS DATUM

\* 1993 TEST DATA

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\*\* 1994 TEST DATA

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WELL NAME	ZONE	E DATE	NITROGEN	C02	METHANE	ETHANE	PROPANE	I-BUTANE	N-BUTANE	I-PENTANE	N-PENTA NE	HE XANE +	BTUS	GPM	SPEC GRAV
	ð	11/23/94	0.310	1.150	86.570	6.980	2.760	0.500	002.0	0.270	0.20	0.530	1159.0	3.424	0.670
RINCON # 1E	≩	11/23/94	0.310	1.150	86.570	6.980	2.760	0.500	0.730	0.270	0.20	0.530	1159.0	3.424	0.670
		06/10/94	0.260	1.100	85.010	7.670	3.250	0.630	0.850	0,350	0.23	0.590	1184.0	3.890	0.685
RINCON # 125M		06/10/94	0.260	1.160	85.010	7.670	3.250	0.630	0.850	0.350	0.23	0.590	1164.0	3.890	0.685
	ă	11/17/94	0.210	1.320	87.950	6.430	2.000	0.510	0.520	0.280	0.18	0.620	1141.0	3.034	0 660
RINCON #128	≩	11/18/94	0.450	1.070	83.080	8.230	4.220	0.790	1.090	0.370	0.24	0.460	1207.0	4.390	0.70
		12/07/93	0.290	1.050	87.540	6.460	2.770	0.540	0.680	0.270	0.17	0.230	1140.4	3.139	0 856
RINCON #128M	MV	12/07/93	0.290	1.050	87.540	6.460	2.770	0.540	0.680	0.270	0.17	0.230	1140.4	3.139	0.656
	ğ	09/15/93	0.280	1.160	84.870	8.010	2.840	0.680	0.800	0.430	0.25	0.580	1182.1	3.927	0.685
RILCON #127	₹	05/13/92	0.390	1.020	81.780	10.520	4.220	0.600	0.840	0.280	0.19	0.160	1189.0	4.679	0.694
	ă	11/17/94	0.300	1.240	84.850	8.010	3.050	0.600	0.800	0.340	0.23	0.580	1180.0	3.892	0 684
RIN: TON # 127M	≩	11/17/94	0.300	1.240	84.850	8.010	3.050	0.600	0.800	0.340	0.23	0.580	1180.0	3.892	0 684
	ă	11/18/94		1.280	84.060	8.420	3 260	0.640	0.890	0.370	0.25	0.600	1192.0	4.128	0692
Rife, JN #128	¥	11/18/94	0.450	0.780	79.710	10.320	5.030	0.880	1.390	0.470	0.35	0.620	1280.0	6.443	0.730
		04/15/94	-	1.000	86.830	7.120	2.350	0.520	0.650	0.290	0 19	0.490	_	3.317	0.666
RELCON #129	MV	03/29/94	-	0.590	79.100	11.220	5.500	0.640	1.060	0.430	0.35	0.580	1	6.588	0.727
	λ	10/23/94	0.270	1.190	81.230	9.850	4.130	0.780	1.120	0.460	0.31	0.660		4.949	0.717
RINCON #129M	٨٧	10/23/94	Η	1.190	81.230	9.850	4.130	0.780	1.120	0.460	0.31	-	_	4.949	0.717
		04/15/94	0.200	1.180	81.380	10.020	4.020	0.740	1.190	0.470	0.33		_ 1	4.902	0.712
R	٨	04/15/94		0.730	78.580	10.230	5.830	1.020	1.470	0.480	0.34	-	_	6.763	0.744
	ă	04/13/94		1.240	84.220	8.530	2.870	0.630	0.780	0.340	0.22	0.640		4.036	0.688
RINCON #136		04/13/94	-	1.210	84.030	8.690	3.110	0.640	0.820	0.350	0.22	1	1188.0	4.120	0.680
		06/15/93	Η	1.080	83.600	9.320	3.440	0.560	0.890	0.330	0.22	+	4	4.254	0687
RINCON #138E	≩	12/12/92		1.072	84.804	8.487	3.185	0.484	0.824	0.307	0.24	1		3.830	0.878
4	ð	11/11/84	0.210	1.120	84.930	8.400	3.100	0.520	0.850	0.280	0.18	1	1	3.666	0.678
RINCON #137		11/11/94	$\neg$	0.600	77.270	12.190	5.890	0.940	1.600	0.460	0.32	+	_	6.138	0.744
		11/18/94		1.200	88.310	6.080	1.900	0.550	0.690	0.250	0.19	+		2.905	0.655
RILCON #140		11/30/94	-	1.180	84.630	7.900	3.110	0.610	0.850	0 390	0.27	┫	_1	-	0.688
	-	10/07/84		1.010	82.600	0.610	3.930	0.660	1.020	0.370	0.20	0.410	1210.0	4	0.00
RILCON #161M	$\rightarrow$	10/07/84	-	1.010	82.500	9.610	3 930	0000	1.020	0.370	0.26	+		+	
<u> </u>	-+	12/08/93	+	1.040	86.780	7.010	2.800	0.550	0.710	0.300	0.18	+	1152.0	+	0.663
RINCON #158M		12/08/93	-	1.040	86.780	7.010	2.800	0.650	0.710	0.300	0.10	0.330		+	599
	EX I	11/10/94	0.240 1.	1.090	83.010	9.160	3.690	0.710	0.930	0.380	0.24	$\neg$		-	0.698
RILICON #150M	MV 1	11/10/94	0.240 1.	1.090	83.010	9.160	3.690	0.710	0.930	0.380	0.24	-		4	0.698
	ž	10/14/94	0.230 1.	1.010	86.060	7.620	2.890	0.540	0.770	0.280	0.18	-	_	_	0.071
RILCON #167M	MV 10	10/14/94	0.230 1.	1.010	86.060	7.620	2.890	0.540	0.770	0.280	0.19	0.410 1		-	0.071
	ы Х	10/31/94	0.330 1.	1.120	83.640	8.800	3.640	0.670	0.890	0.340	0.21	0.360			0.689
RILCON # 170M	MV 10	10/31/94	0.330 1.	1.120	83.640	8.800	3.640	0.670	0.890	0.340	0.21			-	0.689
	$\vdash$	11/26/94		1.140	82.250	9.290	3.660	0.710	1.040	0.410	0.28		1217.0	-	0.707
RINCON # 175M	_		-			9.290	3.880	0.710	1.040	0.410	0.28	-		4	0.707
		09/28/94			85.810	7.490	2.830	0.600	0.740	0.310	0.18			4	0.677
RILICON # 180M	-			1.170	_	7.490	2.830	0.600	0.740	0.310	0.10		1171.0 3	-1	10.0
	ž	12/30/03	0.250 1.0		61.930	9.680	4.090	0.680	1.060	0.400	0.29	0.710		4.807	0.711
194M	_		-	1010	_	0.680	4.090	0.680	1.060	0.400	0.29	-	1228.01	4	

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Unocal OII & Gas Division Unocal Corporation 913 West Broadway, P.O. Box 850 Bloomfield, New Mexico 87413 Telephone (505) 632-1811

# **UNOCAL 76**

December 28, 1994

Meridian Oil Co. 3535 E. 30th St. Farmington, New Mexico 87402

Greetings:

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Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to downhole commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
171M	1645' FSL, 1775' FEL, S21, T27N, R6W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett Production Engineer

Unocal OII & Gas Division Unocal Corporation 913 West Broadway, P.O. Box 850 Bloomfield, New Mexico 87413 Telephone (505) 632-1811

# **UNOCAL** 76

January 30, 1995

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

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to downhole commingle commonly owned production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well

Legal Location

171M

1645' FSL, 1775' FEL, S21, T27N, R6W

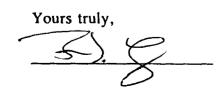
If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 532-1811 ext. 21.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett //

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TETT		
	STATE OF NEW MEXICO	
ENERGY, MI	NERALS and NATURAL RES	N OURCES DIVISION
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BRUCE KING GOVERNOR	ANITA LOCKWOOD CAMNET SECRETARY	195 FEF 28 月川 税的配付BRAZOS ROAD AZTECTION MEXICO BAING (SND 334-6174
Date: 2/27/25	//0/	
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Oil Conservation Division P.O. Box 2088		
Santa Fe, NM 87504-2088		
DE: Dropored MC	Dr	concert DUC
RE: Proposed MC Proposed NSL	Pr	oposed DHC oposed SWD
Proposed WFX	Pr	oposed PMX
	Pr	oposed DD
	,	
Gentlemen:		
I have examined the application	ation received on $2/10/9$	5-
for the <u>Unverl</u>		mit # 171M
OPER/		LEASE & WELL NO.
J-21-27N-6	, (s/ and m	v recommendations are as follows:
UL-S-T-R		y recommendations are as follows:
I'm americe	at to whether to	recomment approval
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pressure figures?	Now can we rea	ly tell if this
well meets ori	tim for adm. am	roval



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A THE PARTY OF THE		Phan Marina //// IRUG / RLL No a Social of Maria
CONSERVAN DIVISION	STATE OF NEW MEXICO	
R RECLICE	LS and NATURAL RESOURC	
95 MAH 11 AM 8 52	AZTEC DISTRICT OFFICE	
BRUCE KING GOVERNOR	ANITA LOCKWOOD Cabinet Secretary	1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 874 (Sid) 334-6178
Date: 3/8/95	-	110 l
Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088		
RE: Proposed MC	Proposed	DHC X
Proposed NSL	Proposed	SWD
Proposed WFX	Proposed	PMX
Proposed NSP Surface Com	minslin's Proposed	DD
Gentlemen:		
I have arguined the application ro	animation 3/2/45	
I have examined the application re $\neg h$	cerved on <u></u>	$ \rightarrow \land \land \land$
for the <u>Chrocel</u>	Kinia	- Chuf
OPERATOR		LEASE & WELL NO.
several welle	and my recon	nmendations are as follows:
UL-S-T-R		
Amon		
<b>.</b>		
Yours truly,		
5).4		

Unocal Oil & Gas Division Unocal Corporation 913 West Broadway, P.O. Box 850 Bloomfield, New Mexico 87413 Telephone (505) 632-1811

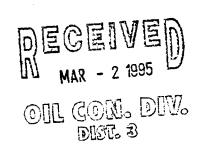
**UNOCAL**®

March 1, 1995

Certified Return Receipt No.: P909423602

New Mexico Oil Conservation Division Attn.: Mr. William J. LeMay PO 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



وجوريف ورواد وراجعون الرواد فواريعو العر

#### **Dear Sirs:**

Union Oil Company of California d.b.a. UNOCAL requests permission to surface commingle hydrocarbon production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
131E	1145' FSL, 1525' FWL, S36, T27N, R7W
134E	800' FSL, 800' FEL, S12, T26N, R7W
149M	1900' FNL, 1365' FWL, \$30, T27N, R6W
166E	1980' FNL, 1980' FWL, S32, T27N, R6W
176E	1505' FNL, 1850' FWL, S31, T27N, R6W
178E	1450' FSL, 1450' FEL, S23, T27N, R7W
185E	1550' FSL, 1505 FEL, S22, T27N, R7W
231E	1145' FNL, 790' FWL, S12, T26N, R7W
304	1850' FNL, 1480 FEL, S11, T26N, R7W
304M	1020' FSL, 795' FEL, S11, T26N, R7W
193M	1000'FNL, 1190' FWL, S35, T27N, R7W
227E	800' FSL, 800' FWL, \$28, T27N, R7W
303E	1850' FNL, 830' FEL, \$33, T27N, R7W
124A	2025' FNL, 1610' FWL, S34, T27N, R7W

These wells will be drilled during the Summer of 1995. It is UNOCAL's intention to complete these wells as dual string Blanco Mesa Verde and Basin Dakota and to surface commingle, in common facilities, commonly owned hydrocarbon production from the Blanco Mesa Verde and Basin Dakota. Allocation factors for gas and oil production from each zone will be determined semiannually by flowing each zone independently through the custody transfer meter or a test separator. The commercial value of this surface commingled production will not be less than the sum of the values of the production from the individual Mesa Verde and Dakota horizons.