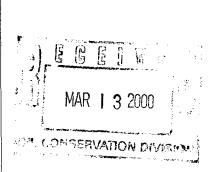
DHC 4/3



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New Name. Same Spirit. A Business Unit of Unocal

March 2, 2000

New Mexico Oil Conservation Division Attn.: David Catanach 2040 S. Pacheco Street Santa Fe, NM 87505-6429

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

Gentlemen,

Union Oil Company of California (UNOCAL) requests approval to down hole commingle production from the Blanco Mesaverde, the Largo Gallup and the Basin Dakota formations in the following Rincon Unit well, Rio Arriba County, New Mexico.

 Well Lease		Legal Location				
 201E	State	1765' FSL, 1705' FEL, SE Sec 2, T26N, R7W				

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

Form C-107-A with supporting data is attached.

If you have any questions please contact Ted Paul at (915) 685-6889.

Sincerely,

Union Oil Company of California dba UNOCAL

Ted Paul Production Engineer

1004 North Big Spring • Post Office Box 3100 • Midland, Texas 79702

### Supplemental Data for C-107-A, Rincon Unit Well No. 201E

**Well History:** The Rincon Unit well no 201E was drilled and completed as a Dakota & Gallup dual gas producer in 1992. The wellbore was downhole commingled in 1998 with the DHC application approved on 3/6/98 per DHC permit no. 1841. Unocal proposes to add a Mesaverde completion and seeks approval to DHC the Mesaverde, Gallup, and Dakota. This well would be completed and operated most economically with a triple commingled completion. An estimated completion date is May 2000.

**Production History:** Current gas production is 400 mcfd + 2 Bopd from the Dakota and Gallup. The current fixed allocation percentage for the well is 67% Dakota and 33% Gallup for both the oil and gas streams. An estimated initial rate for the first 30 days of Mesaverde production is 300 mcfd and 4 Bopd, an average of actual production from recent Mesaverde recompletions.

**Pressure data:** Original bottom hole pressures for the Dakota and Gallup were recorded with bombs after extended shutins. The current Dk-GI BHP was calculated from the commingled surface shut-in casing pressure. Pressure data from the offset Mesaverde well 101 was used for the proposed Mesaverde recompletion. Current pressures are based on a 4 day shut-in in July of 1999. Please refer to attachment for bottom hole pressure data.

Allocation of Production: Unocal proposes to use an allocation based on an established annual decline rate of 8% for the previously DHC formations (Dk & Gallup). This production will be extrapolated monthly using BLM recommended allocation methods with the remainder of the commingled production being allocated to the Gallup formation. Please see attachments for the Dk-GI forecast. Initial flush production volumes have been added to the Dk-GI due to the anticipated extended shut-in during the workover. While tabular data has been provided for the first three years of the Dk-GI forecast, we anticipate being able to convert to a fixed allocation factor for the Mesaverde within 12 to 24 months. Unocal proposes using a yield factor for allocation liquid production. This factor is based on the average oil and water yield for 1998.

### DISTRICT I

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1625 n. French Dr., Hobbs NM 88240

**DISTRICT II** 

811 South First St, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

DISTRICT IV 2040 S. Pacheco, Sante Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department

> OIL CONSERVATION DIVISION 2040 S. Pacheco Sante Fe, New Mexico 87505-6429

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District office State Lease - 4 copies Fee Lease - 3 Copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-039-25174	72319	Blanco Mesa Verde
4 Property Code	5 Property Name	6 Well Number
011510	RINCON UNIT	201E
7 OGRID No.	8 Operator Name	9 Elevation
23708	UNION OIL COMPANY OF CALIFORNIA (U	INOCAL) 6663'

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	2	26N	7W		1765	S	1705	Е	Rio Arriba

### 11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
									1
12 Dedicated	Acres	13 Joint or	3 Joint or Infill 14 Consolidation Code		15 Order No.				
314.12		Y		U		Unitization			

## NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

			17 OPERATOR CERTIFICATION
		sec 2	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
			Signature: Ten Pa.l
			Printed name: Ted Paul
			Title: Production Engineer
:			Date: 3/1/2000
		1	18 SURVEYOR CERTIFICATION
	0 🗲	1705'	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true to the best of my knowledge and belief.
	<b></b>		Date of survey
			Signature and Seal of Professional Surveyor:
	1765'		
			Certificate Number

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT | P.O. Box 1980, Hobbs, NM \$4240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM \$7410 State of New Mexico Energy, Minerals and Natural Resources Department

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Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND	ACREAGE DEDICA	TION PLAT
All Distances must be from	the outer boundaries of t	the section

Operator					Lease				Well No.
UNOC	ΔT					ICON			201 Е
Unit Letter	Section	T	Township		Range		······	County	
J	2		26 N			7 W	NMPN	Rio A	rriba
Actual Footage Loc		eU:	20 11			W			
1765	feet from		South	line and		170	5 feet from	the Fas	⊢ line
Ground level Elev.		Producing	Formation		Pool	<b>_</b>	<u> </u>	Las	Dedicated Acreage: SE/4 160
6663		Sallup/	Dakota		Larg	o/Basin			$\frac{SE}{4}$ 160 E/2 320 Acres
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	yei	-pooling, etc.1		wer is "ves" t	ype of consolidat	ion			
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			the well until all i nating such intere				zation, unitizatio	a, forced-poolia	g, or otherwise)
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		l		Ö		1	1 1	Company	
				• •		1		Union Oil	Corpany of Caliomia
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5				lt	Gallu	R -		on this plat w	as plosted from field notes of
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Cumulative Production thru DEC, 1999

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Oil: 7644 bbls

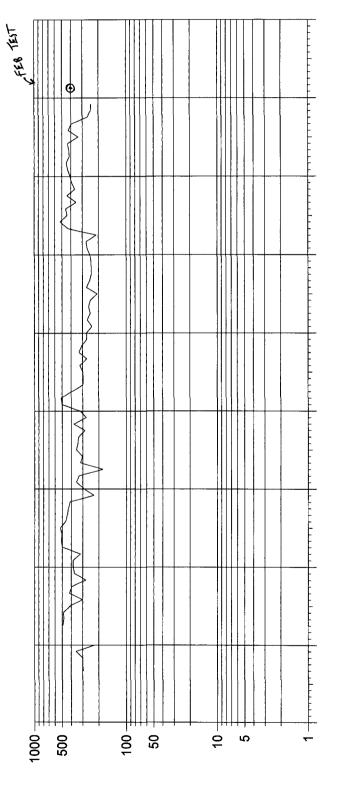
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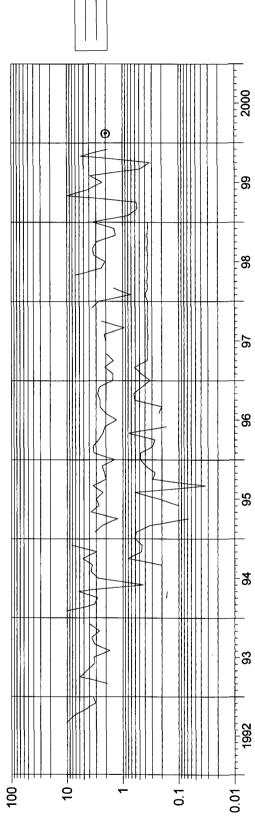
Gas: 908921 Mscf Vater: 599 bbls

# WELL: 201E - Dk/Gl commingle

**Rincon Unit** 

Water:





Oil (BOPD) Water (BWPD)

Gas (MCFD) ( M )

# Rincon 201E Dk/Gl commingle

DATE	GAS VOL PROD Mcf	OIL VOL PROD bbl	Water Vol Prod bbl	Gas Rate (CD) Mcf	Oil Rate (CD) bbl/d	Water Rate (CD) bbl/d	Cum Gas Prod MMcf	Cum Oil Prod bbl
DAIE								
19970101	8374	47	10	270	1.5	0.3	557.2	5198
19970201	6632	42	13	237	1.5	0.5	563.9	5240
19970301	8234	65	19	266	2.1	0.6	572.1	5305
19970401	7410	44	11	247	1.5	0.4	579.5	5349
19970501	7963	61	11	257	2.0	0.4	587.5	5410
19970601	7407	0	11	247	0.0	0.4	594.9	5410
19970701	6428	63	11	207	2.0	0.4	601.3	5473
19970801	8407	67	11	271	2.2	0.4	609.7	5540
19970901	7530	28	11	251	0.9	0.4	617.2	5568
19971001	7454	74	11	240	2.4	0.4	624.7	5642
19971101	7239	0	11	241	0.0	0.4	631.9	5642
19971201	7521	111	11	243	3.6	0.4	639.5	5753
19980101	7729	82	11	249	2.6	0.4	647.2	5835
19980201	7433	20	11	265	0.7	0.4	654.6	5855
19980301	8428	45	11	272	1.5	0.4	663.0	5900
19980401	6352	0	11	212	0.0	0.4	669.4	5900
19980501	13312	210	11	429	6.8	0.4	682.7	6110
19980601	15642	72	11	521	2.4	0.4	698.4	6182
19980701	13587	64	11	438	2.1	0.4	711.9	6246
19980801	14093	102	11	455	3.3	0.4	726.0	6348
19980901	10539	103	11	351	3.4	0.4	736.6	6451
19981001	13655	90	11	440	2.9	0.4	750.2	6541
19981101	10870	40	11	362	1.3	0.4	761.1	6581
19981201	12116	44	11	391	1.4	0.4	773.2	6625
19990101	12633	104	11	408	3.4	0.4	785.8	6729
19990201	12113	22	0	433	0.8	0.0	798.0	6751
19990301	13937	17	0	450	0.5	0.0	811.9	6768
19990401	12471	17	0	416	0.6	0.0	824.4	6785
19990501	13073	299	0	422	9.6	0.0	837.4	7084
19990601	13066	119	0	436	4.0	0.0	850.5	7203
19990701	10341	72	0	334	2.3	0.0	860.8	7275
19990801	13244	119	0	427	3.8	0.0	874.1	7394
19990901	11823	15	0	394	0.5	0.0	885.9	7409
19991001	8265	10	0	267	0.3	0.0	894.2	7419
19991101	7273	168	0	242	5.6	0.0	901.4	7587
19991201	7472	57	0	241	1.8	0.0	908.9	7644

1

# WELL NAME :

### **RINCON UNIT 101 Mesaverde offset** OPIGINIAL

Test Date:
GAS GRAVITY:
CONDENSATE (YES=1):
RESERVOIR TEMP:
SURFACE TEMP:
DEPTH OF ZONE:
% N2
% CO2
% H2S
Pc =
Tc =

F
F
ft
psia
psia
psia

	ł
Test Date:	
GAS GRAVITY:	Γ
CONDENSATE (YES=1):	Γ
RESERVOIR TEMP:	- [
SURFACE TEMP:	ſ
DEPTH OF ZONE:	
% N2	- [
% CO2	- [
% H2S	Ē
Pc =	- [
Tc =	Γ
	_
SURFACE SITP	[
BHP	E
Z	Г

CURRENT	
Jul-99	
0.77	
1	
150	F
60	F
5089	ft
0.86	
0.58	
0.00	
661	
397	

231 psia

265 psia

275 psia

0.964

SURFACE PRESS BHP (16 day shut-in) Ζ BHP/Z

WELL NAME :

# **RINCON UNIT 201E - Gallup**

Test Date: GAS GRAVITY: CONDENSATE (YES=1): RESERVOIR TEMP: SURFACE TEMP: DEPTH OF ZONE: % N2 % CO2 % H2S
Pc = Tc =

ORIGINAL 8/92 0.72 1 175 F 60 F 6629 ft 0.38 0.65 0.00 664 391

## CONDENSATE (YES=1): **RESERVOIR TEMP**: SURFACE TEMP: DEPTH OF ZONE: % N2 % CO2 % H2S Pc = Tc =

BHP/Z

Test Date:

GAS GRAVITY:

SURFACE SITP

BHP

### CURRENT Jul-99 0.72 1 175 F 60 F 6629 ft 0.38 0.65 0.00

664

391

note: DHC with the

Dakota

SURF. BHP (

ACE PRESS	
dip-in after 7	day SI)

 586	psia
700	psia

# WELL NAME :

### **RINCON UNIT 201E DAKOTA** ODICINAL

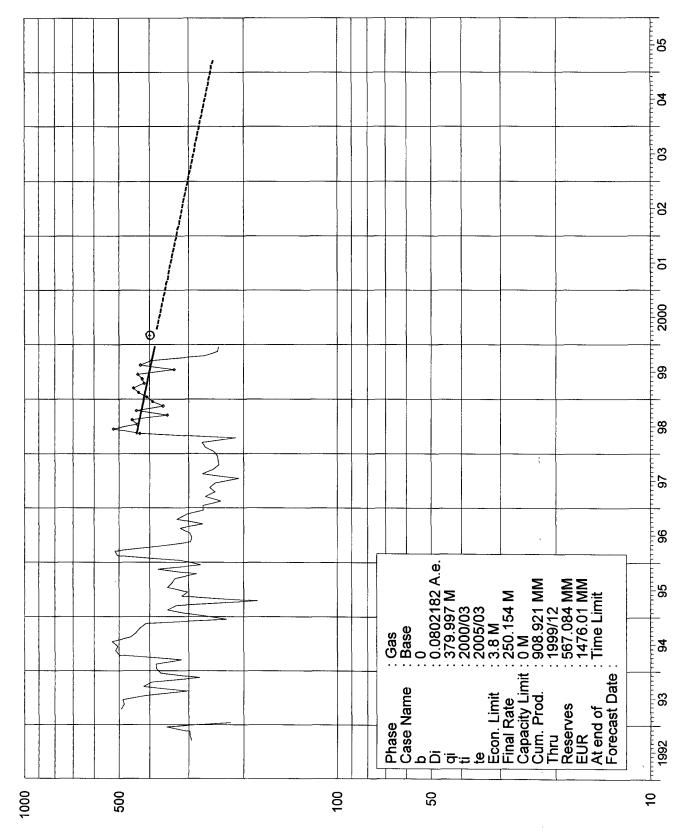
	ORIGINAL		CURRENT
Test Date:	07/28/92	Test Date:	Jul-99
GAS GRAVITY:	0.72	GAS GRAVITY:	0.72
CONDENSATE (YES=1):	1	CONDENSATE (YES=1):	1
RESERVOIR TEMP:	186 F	RESERVOIR TEMP:	186 F
SURFACE TEMP:	60 F	SURFACE TEMP:	60 F
DEPTH OF ZONE:	7312 ft	DEPTH OF ZONE:	7312 ft
% N2	0.35	% N2	0.35
% CO2	1.22	% CO2	1.22
% H2S	0.00	% H2S	0.00
Pc =	668	Pc =	668
Tc =	387	Tc =	387
SURFACE PRESS	psia	SURFACE SITP	291 psia
BHP (12 day build-up)	2,381 psia	BHP	348 psia
Z		Z	0.965
BHP/Z	psia	BHP/Z	360 psia

(C) Copyright 1990, 1993 by Douglas M Boone

BHP	data
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Rincon 201E - Dk/Gl commingle

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Gas (MCFD) ( M )

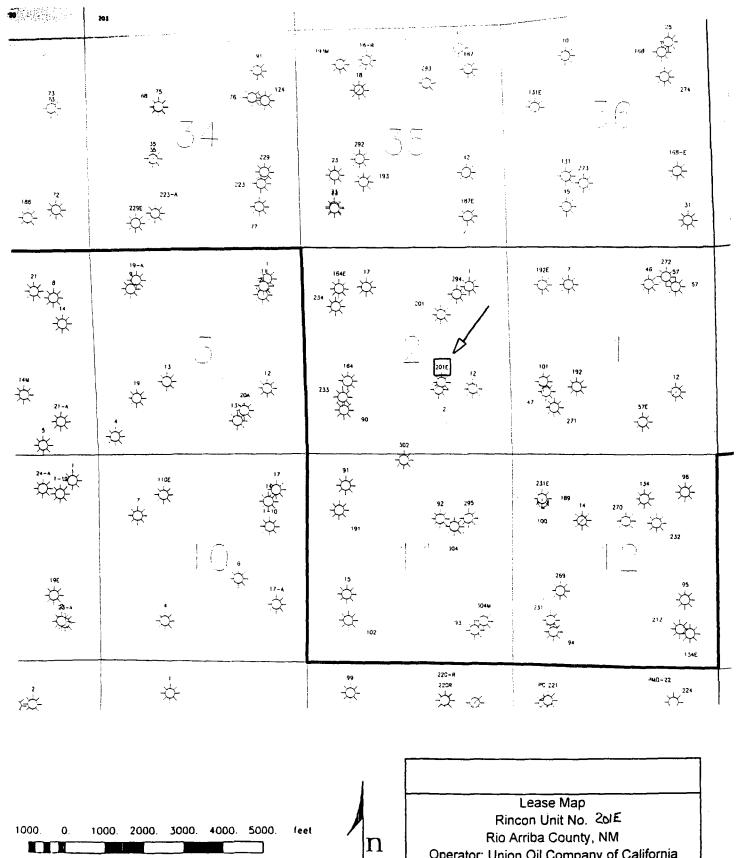
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Existing Completion Prior to proposed DHCDK-GalAnnual Decline8.02%Monthly Decline Factor (Annual / 12)0.6683Average Monthly volume (Mcf) prior to DHC11308Average Monthly volume (BO) prior to DHC85Average Yield (bbls/mcf) Oil0.008Average Yield (bbls/mcf) Water0.000Est. Volume Prior to DHC (Mcf) - May 200011248	Well	RU 201E	
Monthly Decline Factor (Annual / 12)0.6683Average Monthly volume (Mcf) prior to DHC113081999 production dataAverage Monthly volume (BO) prior to DHC851999 production dataAverage Yield (bbls/mcf) Oil0.0081999 production dataAverage Yield (bbls/mcf) Water0.0001999 production data	Existing Completion Prior to proposed DHC	DK-Gal	
Average Monthly volume (Mcf) prior to DHC113081999 production dataAverage Monthly volume (BO) prior to DHC851999 production dataAverage Yield (bbls/mcf) Oil0.0081999 production dataAverage Yield (bbls/mcf) Water0.0001999 production data	Annual Decline	8.02%	
Average Monthly volume (BO) prior to DHC851999 production dataAverage Yield (bbls/mcf) Oil0.0081999 production dataAverage Yield (bbls/mcf) Water0.0001999 production data	Monthly Decline Factor (Annual / 12)	0.6683	
Average Yield (bbls/mcf) Oil0.0081999 production dataAverage Yield (bbls/mcf) Water0.0001999 production data	Average Monthly volume (Mcf) prior to DHC	11308	1999 production data
Average Yield (bbls/mcf) Water 0.000 1999 production data	Average Monthly volume (BO) prior to DHC	85	1999 production data
	Average Yield (bbls/mcf) Oil	0.008	1999 production data
Est. Volume Prior to DHC (Mcf) - May 2000 11248	Average Yield (bbls/mcf) Water	0.000	1999 production data
	Est, Volume Prior to DHC (Mcf) - May 2000	11248	ŝ

\* Forecasted volumes to be adjusted for actual days on production & actual volume prior to commingling

		DK-Gallup	Forecast		
Month	(Mcfd)	(Mcf/mo)	Bopm	<u>Bwpm</u>	factor
1	425	12935	97.1	0.0	+ DK flush volume @ 15% 0.15
2	404	12290	92.3	0.0	+ DK flush volume @ 10% 0.1
3	370	11248	84.5	0.0	
4	367	11173	83.9	0.0	
5	365	11098	83.3	0.0	
6	362	11024	82.8	0.0	
7	360	10950	82.2	0.0	Note: per DHC permit 1841 the Dk /
8	358	10877	81.7	0.0	Gallup are already on a fixed
9	355	10804	81.1	0.0	allocation percentage of 67% / 33%
10	353	10732	80.6	0.0	respectively for both oil and gas.
11	350	10660	80.1	0.0	
12	348	10589	79.5	0.0	
13	346	10518	79.0	0.0	
14	343	10448	78.5	0.0	
15	341	10378	77.9	0.0	
16	339	10309	77.4	0.0	
17	337	10240	76.9	0.0	
18	334	10172	76.4	0.0	
19	332	10104	75.9	0.0	
20	330	10036	75.4	0.0	
21	328	9969	74.9	0.0	
22	326	9902	74.4	0.0	
23	323	9836	73.9	0.0	
24	321	9771	73.4	0.0	
25	319	9705	72.9	0.0	
26	317	9640	72.4	0.0	
27	315	9576	71.9	0.0	
28	313	9512	71.4	0.0	
29	311	9448	70.9	0.0	
30	309	9385	70.5	0.0	
31	306	9322	70.0	0.0	
32	304	9260	69.5	0.0	
33	302	9198	69.1	0.0	
34	300	9137	68.6	0.0	
35	298	9076	68.2	0.0	
36	296	9015	67.7	0.0	



0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

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Rincon Unit No. 2015 Rio Arriba County, NM
Rio Arriba County, NM
Operator: Union Oil Company of California

DISTRICT I 1625 n. French Dr., Hobbs NM 88240 DISTRICT II 811 South First St, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410 DISTRICT IV 2040 S. Pacheco, Sante Fe, NM 87505

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

2040 S. Pacheco

Sante Fe, New Mexico 87505-6429

Form C-107-A Revised August 1999

APPROVAL PROCESS: \_\_\_\_\_ Administrative

\_\_\_\_ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

UNION OIL COMPANY OF CALIFORNIA (UNOCAL)		1004 N. Big Spring, Midland, Tx 79702		
Operator		Address		
Rincon Unit 201E		J 2-26N-7W	Rio Arriba	
Lease Well No.		Unit Ltr Sec - Twp - Rge	County	
OGRID No. <u>023708</u> Property Code	<u>011510</u> API No <u>30-03</u>	Spacing Unit	Lease Types: (check one or more) State <u>x</u> and/or Fee _	
The following facts are submitted in support of downhole commingling	Upper. Zone	Intermediate Zone	Lower Zone	
1. Pool name and Pool code	Blanco MesaVerde - 72319	Largo Gallup - 80000	Basin Dakota - 71599	
2. Top and bottom of Pay section (perforations)	to be determined	6518 - 6740	7222 - 7402	
3. Type of production (oil or gas)	Gas	Gas	Gas	
4. Method of production	Flowing	Flowing	Flowing	
(flowing or artificial lift)				
5. Bottomhole Pressure Oil zones - Artificial líft: Estimated current Gas & Oil - Flowing:	a) current 265 psia	348 psia	348 psia	
Measured current All Gas zones: Estimated or measured original	b) original 1293 psia	700 psia	2381 psia	
6. Oil gravity (deg API) or Gas BTU Content	1328 BTU	1253 BTU	1214 BTU	
7. Producing or Shut-in	Not completed. Shut-in	Producing	Producing	
Production Marginal? (yes or no)	Yes	Yes	Yes	
* If shut-in, give date and oil/gas/	date:	date:	date:	
water rates of last production	inates:	linates:	instance in the second s	
Note: For new zones with no production history, applicant shall be required to attach production	rates:	rates:	rates:	
estimates and supporting data	date:	date:	date: Feb, 2000	
* If producing, give date and oil/gas/	ratas	rates: DUO w/ Datata		
water rates of recent test (within 60 days)	rates:	rates: DHC w/ Dakota	rates: 400 mcfd + 2 bopd + 0 bwpd	
8. Fixed percentage allocation	see attached	see attached	see attached	
Formula-% for each zone			Oil: <u>%</u> Gas: %	
(total of %'s to equal 100%)				
<ol> <li>If allocation formula is based upon submit attachments with supportin</li> <li>Are all working, overriding, and roy If not, have all working, overriding</li> </ol>	yalty interests identical in all o , and royalty interests been n	commingled zones? notified by certified mail? R-9	Yes _X_ No 893_XYes No	
11. Will cross-flow occur?Yes flowed production be recovered, a	_X No If yes, are fluids ca and will the allocation formula	ompatible, will the formations be reliableYesI	not be damaged, will any cros No (If No, attach explanation	
2. Are all produced fluids from all cor	nmingled zones compatible v	with each other? _X)	/es No	
<ol> <li>Will the value of production be dec</li> </ol>	reased by commingling?	Yes _XNo (If Ye	es, attach explanation)	
4. If this well is on, or communitized United States Bureau of Land Mar	with, state or federal lands, ei nagement has been notified ii	ither the Commissioner of Pu n writing of this application	blic Lands or the X_Yes No	
5. NMOCD Reference Cases for Rul	e 303(D) Exceptions: OF	RDER NO(S).		
* Production curve for ea * For zones with no produ * Data to support allocation	ch zone for at least one year. uction history, estimated prod on method or formula.	pacing unit and acreage ded (If not available, attach exp luction rates and supporting o erests for uncommon interest red to support commingling.	lanation.) data.	
hereby certify that the information ab	ove is true and complete to t	he best of my knowledge and	l belief.	
SIGNATURE Tel Mul		ction Engineer	DATE: _3-2-00	
	IIIEE. <u>III0000</u>			
TYPE OR PRINT NAME: Ted Paul		TELEPHONE NO. (91	10) 000-0009	

DHC 1841



# State of New Mexico Commissioner of Public Lands

Ray Powell, M.S., D.V.M. 310 Old Santa Fe Trail, P. O. Box 1148 Santa Fe, New Mexico 87504-1148 Phone (505)-827-5760, Fax (505)-827-5766 PUBLIC AFFAIRS (505)-827-5765

ADMINISTRATIVE MOMT. (505)-827-5700

> LEQAL (505)-827-5715

PLANNINO (505)-827-5752

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COMMERCIAL RESOURCES (505)-827-5724

SURFACE RESOURCES (505)-827-5793

MINERAL RESOURCES (505)-827-5744

> ROYALTY (505)-827-5772

> > February 18, 1998

Union Oil Company of California (UNOCAL) 1004 North Big Spring Midland, Texas 79702

Attn: Ms. Heather Dahlgren

Re: Downhole Commingling Application Rincon Unit Well No. 201E Unit Letter J, Section 2-26N-07W Largo Gallup and Basin Dakota Pools Rio Arriba County, New Mexico

Dear Ms. Dahlgren:

This office is in receipt of your application of February 6, 1998, requesting our approval to downhole commingle the production from the above subject well from the Largo Gallup and Basin Dakota Pools in Rio Arriba County, New Mexico.

It is our understanding that production from the subject well will be allocated as follows:

POOL	ALLOCA	ALLOCATION	
Largo Gallup	<u>Oil %</u> 33 %	<u>Gas %</u> 33%	
Basin Dakota	67 %	67 %	
	100	100	

Since it appears that there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling the production from the above-mentioned well is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division.

Please submit your filing fee in the amount of \$30.00.

UNOCAL February 18, 1998 Page 2

Pleae submit a copy of the Oil Conservation Division's approval order.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M. COMMISSIONER OF PUBLIC LANDS

BY:

JAMI BAILEY, Director Oil, Gas and Minerals Division (505) 827-5744

RP/JB/cpm Enclosure pc: Reader File

OCD-Santa Fe-Attention: David Catanach, Ben Stone