OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1906 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87418 (505) 334-6178 Fax (505)234-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

February 10, 1997

Mr Brett Liggett Unocal Oil and Gas Division Unocal Corp PO Box 850 Bloomfield NM 87413

Re: Rincon Unit #183, API# 30-039-06808, K-31-27N-6W

Dear Mr. Liggett:

Your recommended allocation of commingled production from the referenced well is hereby approved as follows:

Blanco Measverde 62% 52% Basin Dakota 38% 48%

Sincerely,

Frank T. Chavez

District Supervisor

FTC\sh

cc: well file

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





OIL COM. DIN.

Friday, November 15, 1996

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

RE

Rincon Unit, Rio Arriba County, New Mexico Request For Down Hole Commingle Allocation Approval

Dear Mr. Chavez:

The following completions were added to these existing Rincon Unit wells. Completion reports have been submitted for approval. I recommend these constant percentage allocation factors for the producing life of these well bores. The allocation factors should be constant percentage because individual working and royalty interests between all zones involved are equal. I enclose copies of tests and production history to support my recommendation.

Under Street

من راه ني ال

Well	<u>Frm</u>	Legal 7.0 0	DHC Order 39 -0640	Oil (bpd)	Gas (Mcfd)	<u>Oil(%)</u>	<u>Gas(%)</u>
(183	DK*	K,S31,T27N,R6W	NA - 06,40	0.46	180	48	38
183	MV**	K,S31,T27N,R6W	DHC-1376	0.50	295	52	62
168E	DK*	1,S36,T27N,R <b>#</b> ₩	DHC-917	0.88	218	56	26
168E	GL*	I,S36,T27N,R <b>¢</b> W	DHC-917	0.00	72	0	9
168E	MV**	1,S36,T27N,R <b>6</b> W	DHC-1911	7.00	553	44	65

<sup>\*</sup>Existing Completion

If you have any questions please I may be contacted at (505) 632 - 1811 ext. 14.

Sincerely,

Union Oil Company of California

d.b.a. UNOCA

Brett H. Liggett

Production Engineer

cc BLM, Farmington District, Farmington New Mexico

<sup>\*\*</sup>New Completion

#### ADMINISTRATIVE ORDER DHC-1376

Unocal Oil & Gas Division P.O. Box 850 Bloomfield, New Mexico 87413-0850

Attention: Mr. Brett H. Liggett

ECEIVE

OCT 2 2 1986

UNOCAL, BLOOMFIELD

Rincon Unit Well No.183 (API No.30-039-06834) UNUGAL, Bl Unit K, Section 31, Township 27 North, Range 6 West, NMPM, Rio Arriba, New Mexico. Blanco Mesaverde (Gas - 72319) and Basin Dakota (Prorated Gas - 71599) Pools

Dear Mr. Liggett:

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 multiple 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 subject zones is hereby placed in abeyance.

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.

Production from the subject well shall be allocated utilizing the formula as shown on Exhibit 'A' attached hereto.

The allocation method established herein may be altered at some time subsequent to initiating downhole commingling operations upon request by the operator and for good cause shown.

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

Pursuant to Rule 303.H., 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 16th day of October, 1996.

Administrative Order DHC-1376 Unocal Oil & Gas Division October 16, 1996 Page 2

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/BES

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

## EXHIBIT 'A'

To allow for flush production for a period of less than 24 months:

$$Q1n = qi(e^-D(t-0.5))(365/12)$$
 and  $Q2n = Qn-Q1n$ ;

When: Qn < Q1n;

Then: 
$$Q1n = Qn(Q1(n-1)/(Q1(n-1)+Q2(n-1)))$$
 and  $Q2n = Qn(Q2(n-1)/(Q1(n-1)+Q2(n-1)))$ ;

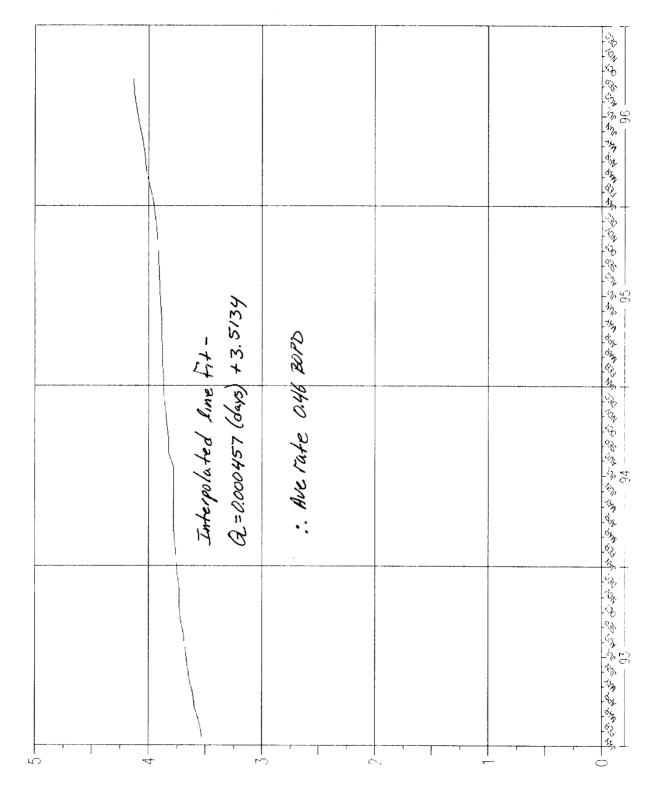
And to allow for flush production for a period of more than 24 months:

$$Q1n = Qn(Q1(24)/(Q1(24) + Q2(24)))$$
 and  $Q2n = Qn(Q2(24)/(Q1(24) + Q2(24)))$ ;

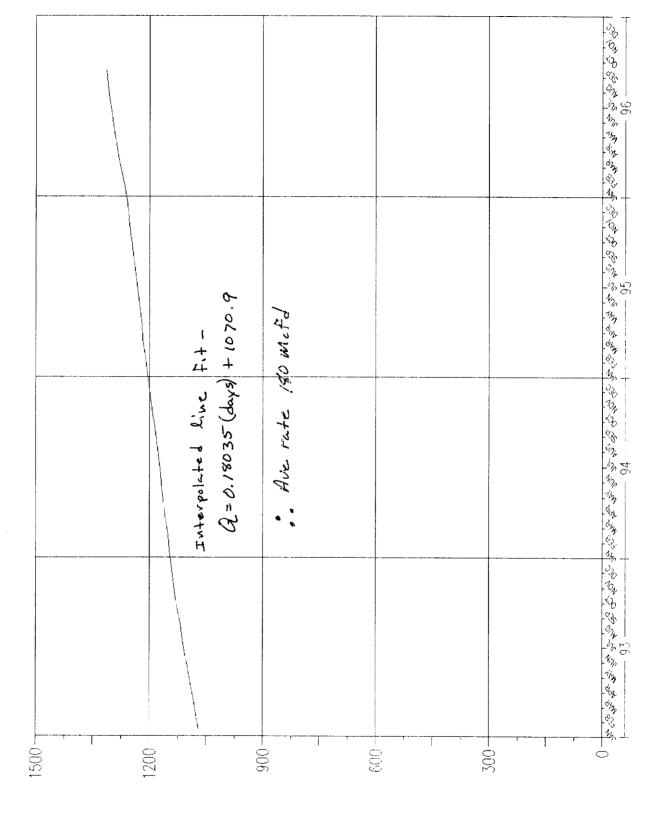
### Where:

qi	Average three month production rate of the existing completion prior to downhole commingling in Mcfd
D	Effective monthly decline rate of the existing completion (1/months)
Qn	Total commingled production, for the $n$ th month, after $n$ months of commingled production in Mcfd.
Q1n	Total production for the existing completion, for the $n$ th month, after $n$ months of commingled production in Mcfd.
Q2n	Total production for the new completion, for the $n$ th month, after $n$ months of commingled production in Mcfd.
t	Time from beginning of commingled production (months)

WELL: RINCON UNIT 183:DK



Cum Oil Prod (Mbbls)



Curr Gas Pred (MMsef)

Form 3160-4

(November 1983) (formerly 9-330)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other in-

structions on

FORM APPROVED

Budget Bureau no. 1004-0137

Expires: August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. reverse side) SF 079364

WELL COM	PLETION	OR REC	OMP	LETIC	NRE	POR	TAND	LOG*	6. IF INDIAN	, ALLO:	TTEE OR TRIBE NAME	
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b. TYPE OF COMPLETIC	NN:	MEIT X	WELL	L	DRY	L	OTHER	·	ļ			
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Attop prod. Intervatire	ported below	SAME			Alloca	tion	vest fe		K 0 0	4		
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GR/NU FOR THIS	COMPLETION	1									NO NO	
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							3) 222 so	s 1-1 Diam	ix			
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SIGNED	Hatt IS	JUST -	•	TITLE PI	ODUCTION	ENGIN	EER	DATE _	11/15	196		







OIL CONSERVATION DIVISION





ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BCIX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5900

ADMINISTRATIVE ORDER DHC-917

UNOCAL Oil & Gas Division 3300 North Butler Avenue Farmington, NM 87401

Attention: Glen O. Papp

Rincon Unit Well No. 168-E Unit I, Section 36, Township 27 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Undesignated Gallup and Basin Dakota 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:

Undesignated Gallup Pool	Oil	0%	Gas	25%
Basin Dakota Pool	Oil	100%	Gas	75%

Administrative Order DHC-917 UNOCAL Oil & Gas Division September 17, 1993 Page 2

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 17th day of September, 1993.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

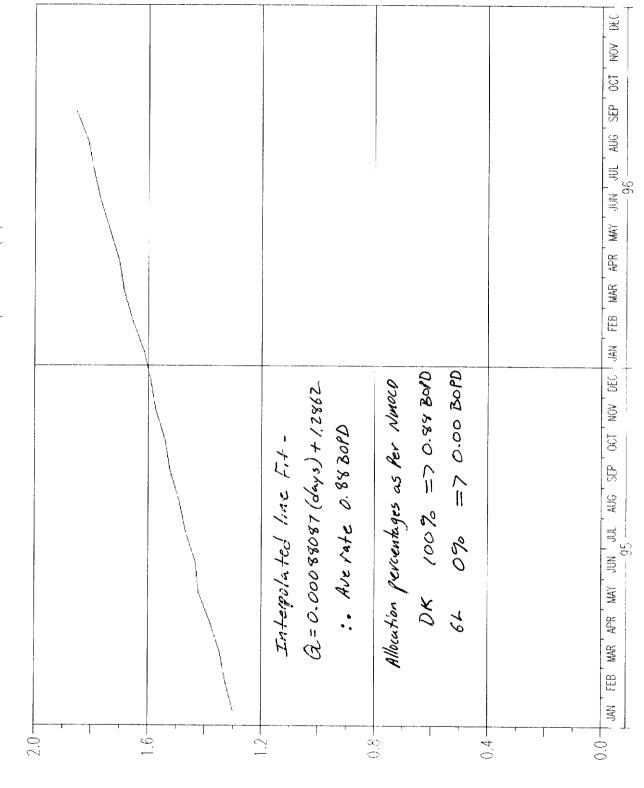
Director

SEAL

WJL/BES/amg

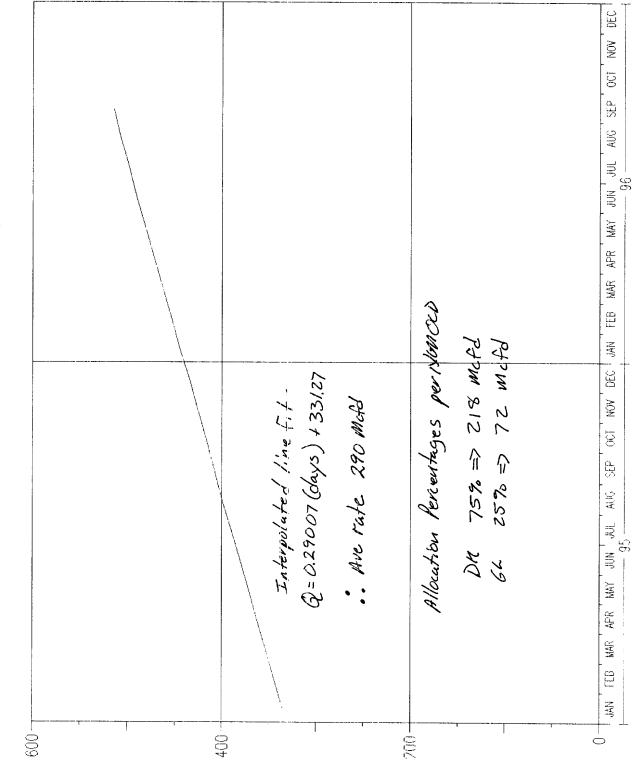
cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington

WELL: RINCON UNIT 168E:DK/GL Total for Selected Completions (2)



Crm Oil Prod (Mbbls)

WELL: RINCON UNIT 168E:DK/GL Total for Selected Completions (2)



Cum Gas Prod (MMscf)

District Office State Lease - 6 copies Fee Lease - 5 copies DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Submitted for Allo	cution
Request for	Form C-105 Revised 1-1-89

# OIL CONSERVATION DIVISION

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			V	ented						<b>-</b>			
0. List Attachments								·					
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	16/	15/1	// ,	Pris	nted								,
Signature	YS ALL	THU	11	Na.	me Brett H. Ligge	tt		Title	Producito	n Engineer (	Date	11/8	191