OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1800 RIO BRAZOS ROAD AZTEC, NEW MEXICO 97410 (808) 334-6178 Fax (808)334-6170

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 #168E, API# 30-039-25211, I-36-27N-7W

Dear Mr. Liggett:

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

	Gas	Oil
Blanco Measverde	65%	44%
Gallup	9%	0%
Basin Dakota	26%	56%

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. DIV.

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.

VO BASE

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nulbert

Well	<u>Frm</u>	Legal 30 = 0	DHC Order 39 -06409	Oil (bpd)	Gas (Mcfd)	<u>Oil(%)</u>	<u>Gas(%)</u>
(183	DK*	K,S31,T27N,R6W	NA -UE-S	້0.46	180	48	38
(183	MV**	K,S31,T27N,R6W	DHC-1376	0.50 ≥ (≀	295	52	62
168E	DK*	I,S36,T27N,ReW	DHC-917	0.88	218	56	26
168E	GL*	1,S36,T27N,R6W	DHC-917	0.00	72	0	9
168E	MV**	1,S36,T27N,R&W	DHC-1911	7.00	553	44	65

^{*}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. UNOCAL

Brett H. Liggett

Production Engineer

cc BLM, Farmington District, Farmington New Mexico

^{**}New Completion

OIL CONSERVATION DIVISION 2040 South Pecheco Street Senta Fe, New Mexico 87505 (505) 827-7131

ADMINISTRATIVE ORDER DHC-1376

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

Attention: Mr. Brett H. Liggett

OCT 2 2 1996

UNOCAL, BLOOMFIELD

Rincon Unit Well No. 183 (API No. 30-039-06834) UNOCAL, BI 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.

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;

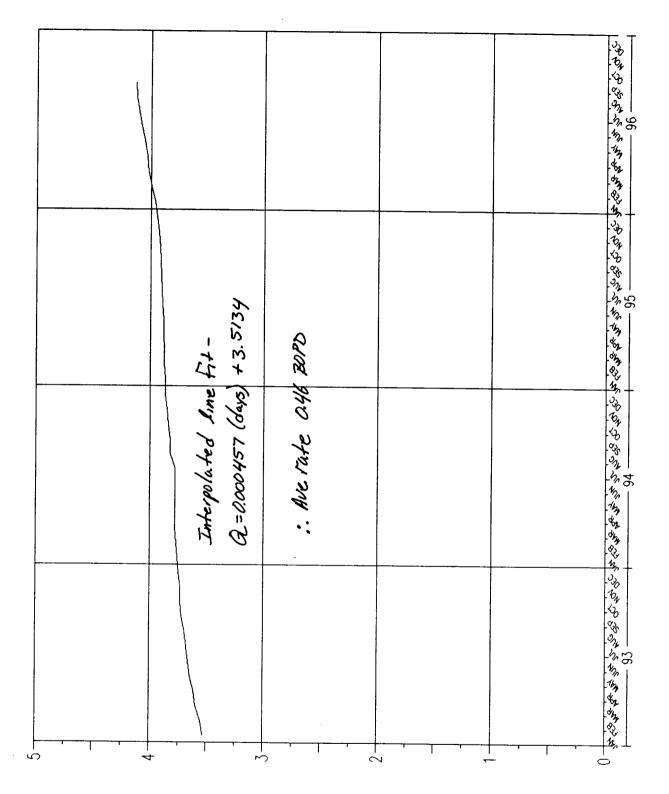
Then: Q1n = Qn(Q1(n-1)/(Q1(n-1)+Q2(n-1))) and Q2n = Qn(Q2(n-1)/(Q1(n-1)+Q2(n-1)));

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

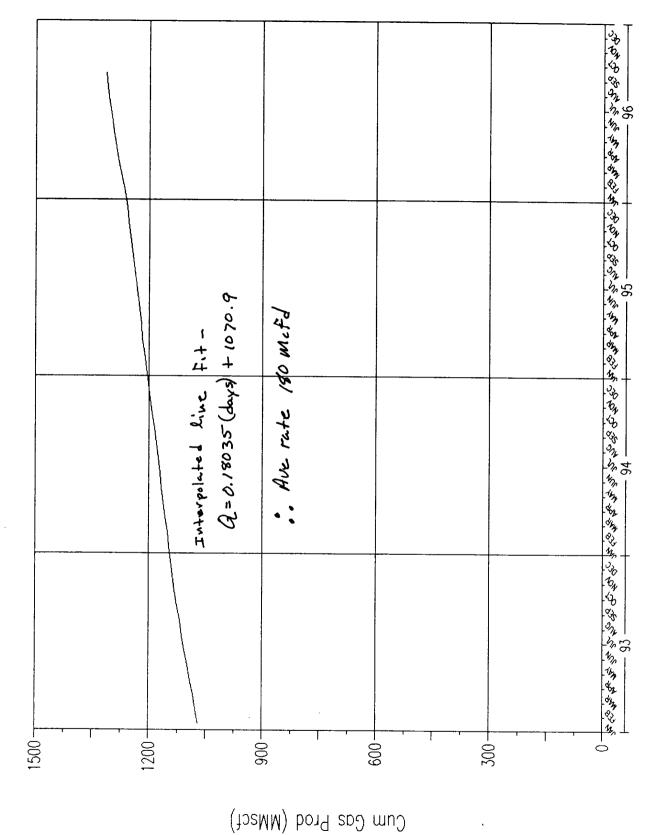
Q1n = Qn(Q1(24)/(Q1(24)+Q2(24))) and Q2n = Qn(Q2(24)/(Q1(24)+Q2(24)));

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)



Cum Oil Prod (Mbbls)



Form 3160-4

(November 1983) (formerly 9-330)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT SUBMIT IN DUPLICATE

FORM APPROVED

(See other in-

structions on

Budget Bureau no. 1004-0137

Expires: August 31, 1965

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GR/NU FOR THIS													2/.	WAS	WELL CORED NO
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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

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%

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. LEMA

Director

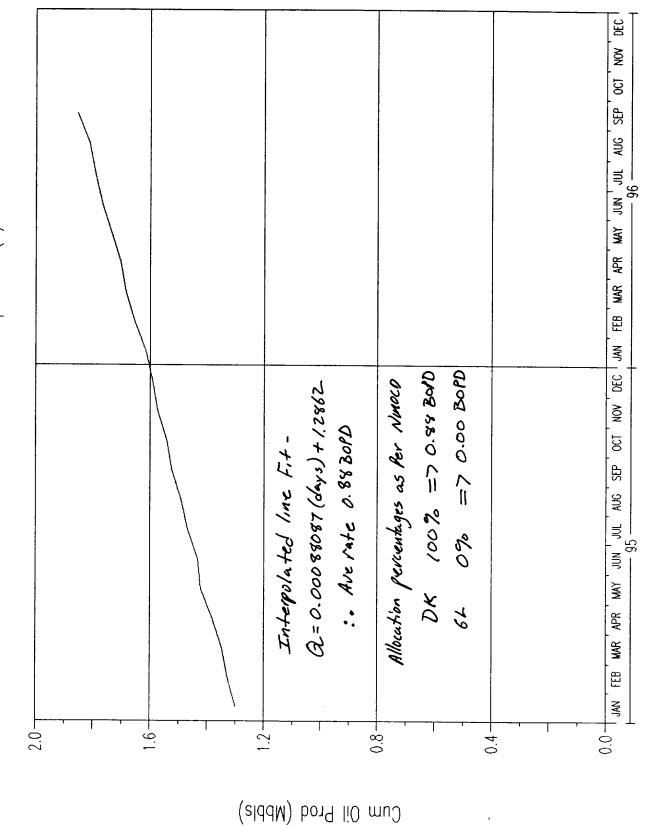
SEAL

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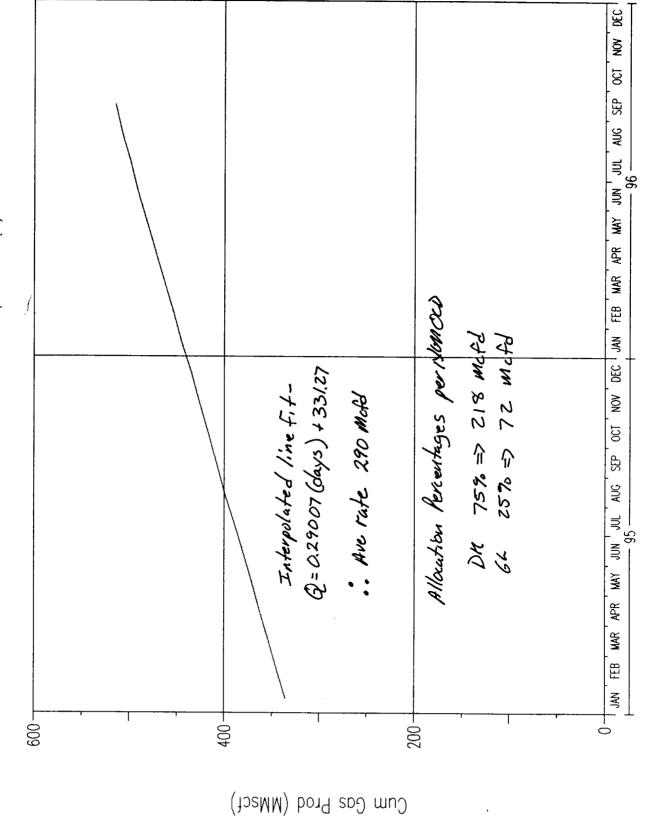
cc: Oil Conservation Division - Aztec

US Bureau of Land Management - Farmington

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



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



- District Office Parte Lease - 6 copies
Pee Lease - 6 copies
DISTRICT 1
P.O. Box 1984, Hobbs, NM 88246

DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Submitted for Allocation

OIL CONSERVATION DIVISION

P.O. Drawer DD, Artenia, NM 88210

P.O. Box 2068 Santa Fe, New Mexico 87504-2088

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