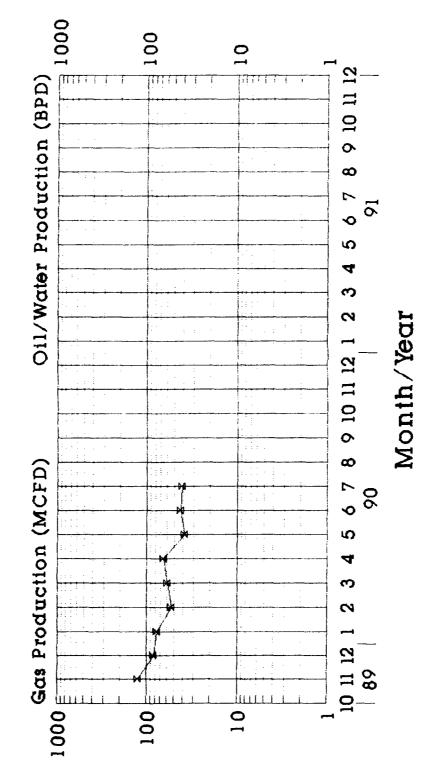
# RIO ARRIBA COUNTY, NEW MEXICO



Production based on actual days on

Water

=======

42,225

=======

-208,858

======= -127,526

1994-37

TOTAL

280,088

360,112

=======

166,321

=======

186,724

# SCHEDULE OF LANDS AND WORKING INTEREST OWNERSHIP IN INITIAL BASIN FRUITLAND COAL PARTICIPATING AREA

### RINCON UNIT

# TRACT NO. 1 (UNIT TRACT NO. 1) (Acreage in Unit Tract: 520.00 ac.)

LESSOR: U.S.A. SERIAL NO.: SF-079052

ACREAGE DESCRIPTION: Township 27 North, Range 6 West

Section 18: SE/4, E/2 SW/4

WORKING INTEREST OWNER(S): Union Oil Company of California - 100%

ACREAGE INCLUDED IN INITIAL

PARTICIPATING AREA: 240.00 acres

PERCENTAGE OF FRUITLAND
COAL FORMATION PRODUCTION

ALLOCATED TO THIS TRACT: 25.02398%

# TRACT NO. 2 (UNIT TRACT NO. 17) (Acreage in Unit Tract: 157.76 ac.)

LESSOR: U.S.A.

SERIAL NO.: SF-079404-A

ACREAGE DESCRIPTION: Township 27 North, Range 6 West

Section 18: Lots 3 & 4

WORKING INTEREST OWNER(S): El Paso Natural Gas Company - 100%

ACREAGE INCLUDED IN INITIAL

PARTICIPATING AREA: 79.08

PERCENTAGE OF FRUITLAND COAL FORMATION PRODUCTION

ALLOCATED TO THIS TRACT: 8.24540%

# TRACT NO. 3 (UNIT TRACT NO. 15) (Acreage in Unit Tract: 959.40 ac.)

LESSOR: U.S.A.

SERIAL NO.: SF-079366

ACREAGE DESCRIPTION: Township 27 North, Range 6 West

Section 21: SW/4

WORKING INTEREST OWNER(S): Union Oil Company of California-83.33%

El Paso Natural Gas Company -16.679

ACREAGE INCLUDED IN INITIAL

PARTICIPATING AREA: 160.00

PERCENTAGE OF FRUITLAND COAL FORMATION PRODUCTION

ALLOCATED TO THIS TRACT: 16.68266%

# TRACT NO. 4 (UNIT TRACT NO. 15A) (Acreage in Unit Tract: 1599.32 ac.)

LESSOR: U.S.A. SERIAL NO.: SF-079366

ACREAGE DESCRIPTION: Township 27 North, Range 6 West

Section 21: NW/4

WORKING INTEREST OWNER(S): Union Oil Company of California - 100%

ACREAGE INCLUDED IN INITIAL

PARTICIPATING AREA: 160.00

PERCENTAGE OF FRUITLAND
COAL FORMATION PRODUCTION

ALLOCATED TO THIS TRACT: 16.68265%

# TRACT NO. 5 (UNIT TRACT NO. 14) (Acreage in Unit Tract: 840.00 ac.)

LESSOR: U.S.A. SERIAL NO.: SF-079365

ACREAGE DESCRIPTION: Township 27 North, Range 6 West

Section 23: S/2

WORKING INTEREST OWNER(S): Union Oil Company of California-83.33%

El Paso Natural Gas Company -16.6

ACREAGE INCLUDED IN INITIAL

PARTICIPATING AREA: 320.00

PERCENTAGE OF FRUITLAND COAL FORMATION PRODUCTION

ALLOCATED TO THIS TRACT: 33.36531%

# SUMMARY OF LANDS INCLUDED IN THE INITIAL BASIN FRUITLAND COAL PARTICIPATING AREA

# RINCON UNIT

LEASE	UNIT TRACT NO.	ACREAGE	PERCENTAGE
U.S.A. SF-079052	1	240.00	25.02398
U.S.A. SF-079404-A	17	79.08	8.24540
U.S.A. SF-079366	15	160.00	16.68266
U.S.A. SF-079366	15A	160.00	16.68265
U.S.A. SF-079365	14	320.00	33.36531
		959.08	100.00000%

# SUMMARY OF WORKING INTEREST OWNERSHIP IN THE INITIAL BASIN FRUITLAND COAL PARTICIPATING AREA

WORKING INTEREST OWNER	WORKING INTEREST PERCENTAGE
Union Oil Company of California	83.41327%
El Paso Natural Gas Company	16.58673%

### STATE OF NEW MEXICO

# COUNTY OF SAN JUAN

### APPLICANT'S STATEMENT AND AFFIDAVIT

BEFORE ME, the undersigned authority on this day personally appeared Paul West, District Production Manager, known to me to be the person whose name is subscribed to this instrument, who, having been by me first duly sworn, upon oath states as follows:

- 1) That this Statement and Affidavit is made concerning this application for an initial Basin Fruitland Coal Gas participating area in the Rincon Unit, in the W/2 Section 27, T27N-R6W, comprising 316.31 acres.
- 2) That to the best of his information, knowledge and belief, the information supplied is true.
- 3) That notice of this application has been mailed or delivered to the Rincon Unit working interest owners in accordance with the unit agreement and the unit operating agreement.
- 4) That he certifies that the information and data contained in the application are true and correct and that all copies of records or summaries of such records relied upon in the application are true, correct and authentic copies of documents on file in the offices of Union Oil Company of California (Unocal).
- 5) That he is of lawful age, that he is a responsible official of Unocal, that he is duly authorized to make this Statement and Affidavit on behalf of Unocal, that he has knowledge of the facts contained herein, that this Statement and Affidavit is true and correct, and that he adopts the allegations herein as his sworn statement.

SUBSCRIBED AND SWORN TO before me, this undersigned authority, on this day of Movember 31, 1990.

Notary Public in and for San Juan County, New Mexico

My Commission Expires:

# State of New Mexico





# Commissioner of Public Lands

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

October 3, 1990

Mr. William Hering, District Petroleum engineer Unocal Oil & Gas Division Unocal Corporation 3300 North Butler Avenue Suite 200 Farmington, NM 87401

Re: Rincon Unit

Rio Arriba County, New Mexico 1990 Plan of Development, Third Revision

Dear Mr. Hering:

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the Rincon Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES

BY: Floyd O. Prando, Director

Oil, Gas & Minerals Division

cc: OCD

Unit Corresp.

Unit POD



'90 AUG 23 AM 9 23

August 21, 1990

Farmington District

U.S. Dept. of the Interior Branch of Land Management Branch of Fluid Minerals Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87504-2088

> RE: 1990 Plan of Development Third Revision Rincon Unit Rio Arriba County, NM

### Gentlemen:

Unccal (Union Oil of California) is the operator of the Rincon Unit in Rio Arriba County, New Mexico. As stated in the original plan filed January 8, 1990, last year's Plan of Development included the drilling and completion of ten development gas wells; however, only five of the ten were actually drilled and completed. These include:

Well Na	me/Numbe	er E	Formation			Location
*****	*****	*****	*****	*****	****	******
Rircon	#239	Basin	Fruitland	Coal	SW/4	S18,T27N,R06W
Rir.con	#240	Basin	Fruitland	Coal	SW/4	S21,T27N,R06W
Rircon	#241	Basin	Fruitland	Coal	SW/4	S22,T27N,R06W
Rircon	#242	Basin	Fruitland	Coal	SW/4	S23,T27N,R06W
Rir.con	#243	Basin	Fruitland	Coal	SW/4	S27,T27N,R06W

The remaining five wells were reevaluated and dropped from consideration.

Following is the revised 1990 Plan of Development for the Rincon Unit:

Proposed for the 1990 calendar year is the drilling and completion of thirty-nine (39) development gas wells. All will be drilled and completed in the Basin Fruitland Coal Formation. These wells and their proposed locations are presented below.

Well Na	me/Numbe	er E	Formation			Location
*****	******	*****	******	*****	****	LOCATION
Rincon	#246		Fruitland		NE/4	S23,T27N,R06W
Rincon	#248	Basin	Fruitland	Coal		S26,T27N,R06W
Rincon	••		Fruitland		-	S27,T27N,R06W
Rincon	••		Fruitland			S28,T27N,R06W
Rincon	••		Fruitland			S18,T27N,R06W
Rincon			Fruitland			S17,T27N,R06W
Rincon	••		Fruitland			S20,T27N,R06W
Rincon			Fruitland			S20,T27N,R06W
Rincon	••		Fruitland			S16,T27N,R06W
Rincon	• • • • • • • • • • • • • • • • • • • •		Fruitland			S16,T27N,R06W
Rincon	••		Fruitland			S17,T27N,R06W
Rincon	••		Fruitland			S29,T27N,R06W
Rincon	**		Fruitland			S32,T27N,R06W
Rincon	••		Fruitland			S29,T27N,R06W
Rincon	**		Fruitland		•	S19,T27N,R06W
Rincon	••		Fruitland			S30,T27N,R06W
Rincon	••		Fruitland			S30,T27N,R06W
Rincon	.,		Fruitland			S12,T26N,R07W
Rincon	••		Fruitland		NE/4	S12,T26N,R07W
Rincon	••		Fruitland		SW/4	S01,T26N,R07W
Rincon	••		Fruitland		NE/4	S01,T26N,R07W
Rincon	#273		Fruitland		SW/4	S36,T27N,R07W
Rincon			Fruitland		NE/4	S36,T27N,R07W
Rincon	#276	Basin	Fruitland	Coal	NE/4	S13,T27N,R07W
Rincon			Fruitland		SW/4	S13,T27N,R07W
Rincon	#278	Basin	Fruitland	Coal	NE/4	S14,T27N,R07W
Rincon		Basin	Fruitland	Coal	SW/4	S14,T27N,R07W
Rincon			Fruitland		NE/4	S15,T27N,R07W
Rincon	#281	Basin	Fruitland	Coal	NE/4	S23,T27N,R07W
Rincon	#285	Basin	Fruitland	Coal	NE/4	S27,T27N,R07W
Rincon	**		Fruitland		SW/4	S26,T27N,R07W
Rincon	••		Fruitland		SW/4	S27,T27N,R07W
Rincon	••		Fruitland			S33,T27N,R07W
Ri.ncon	#291	Basin	Fruitland	Coal	NE/4	S34,T27N,R07W

Well Nam			Formation			Location
******	******	*****	*****	*****	*****	******
Rincon #	<b>‡292</b>	Basin	Fruitland	Coal	SW/4	S35,T27N,R07W
Rincon	‡293	Basin	Fruitland	Coal	NE/4	S35, T27N, R07W
Rincon	294	Basin	Fruitland	Coal	NE/4	S02, T26N, R07W
Rincon	295	Basin	Fruitland	Coal	NE/4	S11,T26N,R07W
Rincon	#300	Basin	Fruitland	Coal	NE/4	S06, T26N, R06W
Rincon	#301	Basin	Fruitland	Coal	SW/4	S25,T27N,R07W

Additionally, a number of existing wells will be plugged back to, and dualled with the Basin Fruitland Coal Gas formation. These wells will replace, location for location, new drilling wells presented in the last revision.

Well Name/Number		Location
*******	*******	*******
Rir.con #3 PC	Plug-Back	6P,T26N,R06W
Rincon #19 PC	Plug-Back	30E,T27N,R06W
Rincon #24 PC	Dual	32M,T27N,R06W
Rincon #34 PC	Plug-Back	28K,T27N,R07W
Rincon #35 PC	Plug-Back	34K, T27N, R07W
Rincon #49 PC	Dual	31B, T27N, R06W
Rincon #50 PC	Dual	31L, T27N, R06W
Rincon #56 PC	Plug-Back	2J,T26N,R07W
Rincon #59 PC	Dual	24J,T27N,R07W
Rincon #60 PC	Dual	25B,T27N,R07W
Rincon #62 PC	Dual	28P, T27N, R06W
Rincon #65 PC	Dual	230,T27N,R07W
Rincon #66 PC	Dual	22H,T27N,R07W
Rincon #73 PC	Plug-Back	33H,T27N,R07W
Rincon #84NP MV	Dual	26A, T27N, R07W
Rincon #93 PC	Dual	11P,T26N,R07W
Rincon #117 PC	Plug-Back	21I,T27N,R06W
Rincon #118 PC	Dual	22A,T27N,R06W
		• • • • • • • • • • • • • • • • • • •

A number of wells will be plugged and abandoned this year. These include the following:

26I,T27N,R06W

Location

Rincon #122 PC Plug-Back

Well Name/Number

******	******	******
Dinger 0	Waga Wanda	201/ 0271 00611
Rincon 8	Mesa Verde	20K,T27N,R06W
Rincon 28	Pictured Cliffs	29B,T27N,R06W
Rincon 36	Pictured Cliffs	14N,T27N,R07W
Rincon 89	Pictured Cliffs	13P,T27N,R07W
Rincon 112	Pictured Cliffs	200, T27N, R06W
Rincon 191	Chacra	11E,T26N,R07W
Rincon 238	Chacra	22A, T27N, R07W
		· · · · · · · · · · · · · · · · · · ·

Formation

Unocal believes that all unit drilling obligations have been met, however, additional wells to prevent drainage or to meet any other regulatory or legal requirement will be assessed and drilled as the need arises. This plan has been sent to each Rincon Unit working interest owner. The above drilling development work is subject to partner and management approval.

Yours very truly,

Union Oil Company of California

William Herring

William Hering

District Petroleum Engineer



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA 1235 LAPLATA HIGHWAY FARMINGTON, NEW MEXICO 87401



Rincon Unit (POD) 3180 (019)

AUG. 0 3 1990

Union 011 of California 3300 North Butler Ave., Suite 200 Farmington, NK 87401

Gentlemen:

One approved copy of your second revised 1990 Plan of Development for the Riacon Unit area, Rio Arriba County, New Mexico is enclosed. Such plan, proposing an additional six (6) Fruitland Coal wells (Rincon Unit 297-302) for a total of 59 Fruitland Coal wells was approved on this date (subject to like approval by the appropriate officials of the State of New Mexico).

The possibility of drainage by wells outside of the unit boundary may exist.

You will be contacted at a later date about this possibility.

If you have any questions, please contact Kenny Howell, Petroleum Engineer, at the above address or telephone (505) 327-5344.

Sincerely.

John L. Keller, Chief Branch of Mineral Resources

cc: New Mexico Oil Conservation Division, 310 Old Santa Fe Trail, Room 206, Santa Fe, NM 87503

Commissioner of Public Lands, State of New Mexico, P. O. Box 1148, Santa Fe, NH 87504

Unocal Oil & Gas Division Unocal Corporation

3300 North Butler Avenue Suite 200

Farmington, New Mexico 87401 Telephone (505) 326-7600(1.00418.1.) Fax: (505) 326-6145

RECTIVED



'90 JUL 12 AM 8 52

July 10, 1990

### Farmington District

U.S. Dept. of the Interior Branch of Land Management Branch of Fluid Minerals Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

Oil Conservation Division State of New Mexico P.O. Box 2088 Sant.a Fe, NM 87504-2088

> 1990 Plan of Development RE: Second Revision

Rincon Unit

Rio Arriba County, NM

### Gent:lemen:

Unocal (Union Oil of California) is the operator of the Rincon Unit in Rio Arriba County, New Mexico. As stated in the original plan filed January 8, 1990, last year's Plan of Development included the drilling and completion of ten development gas wells; however, only five of the ten were actually drilled and completed. These include:

Well Name/Num	oer Formation		Location				
***************							
Rincon #239	Basin Fruitland		S18,T27N,R06W				
Rincon #240	Basin Fruitland	Coal SW/4	S21,T27N,R06W				
Rincon #241	Basin Fruitland	Coal SW/4	S22,T27N,R06W				
Rincon #242	Basin Fruitland	Coal SW/4	S23,T27N,R06W				
Rincon #243	Basin Fruitland	Coal SW/4	S27, T27N, R06W				

The remaining five wells were reevaluated and dropped from consideration.

Following is the revised 1990 Plan of Development for the Rincon Unit:

Proposed for the 1990 calendar year is the drilling and completion of fifty-nine (59) development gas wells. All will be drilled and completed in the Basin Fruitland Coal Formation. These wells and their proposed locations are presented below.

Well Name/Numb	er Formation		Location
			******
Rincon #244	Basin Fruitland	•	S21,T27N,R06W
Rincon #245	Basin Fruitland		S22,T27N,R06W
Rincon #246	Basin Fruitland	•	S23,T27N,R06W
Rincon #247	Basin Fruitland		S26,T27N,R06W
Rincon #248	Basin Fruitland	•	•
Rincon #249	Basin Fruitland		S27,T27N,R06W
Rincon #250	Basin Fruitland		S28,T27N,R06W
Rincon #251	Basin Fruitland		S28,T27N,R06W
Rincon #252	Basin Fruitland	•	S18,T27N,R06W
Rincon #253	Basin Fruitland	d Coal SW/4	S17,T27N,R06W
Rincon #254	Basin Fruitland	d Coal NE/4	S20,T27N,R06W
Rincon #255	Basin Fruitland	d Coal SW/4	S20,T27N,R06W
Rincon #256	Basin Fruitland	d Coal SW/4	S16,T27N,R06W
Rincon #257	Basin Fruitland	d Coal NE/4	S16,T27N,R06W
Rincon #258	Basin Fruitland		S17,T27N,R06W
Rincon #259	Basin Fruitland	d Coal NE/4	S29,T27N,R06W
Rincon #260	Basin Fruitland	d Coal NE/4	S32,T27N,R06W
Rincon #261	Basin Fruitland		S29,T27N,R06W
Rincon #262	Basin Fruitland		S32,T27N,R06W
Rincon #263	Basin Fruitland		S19,T27N,R06W
Rincon #264	Basin Fruitland		S19,T27N,R06W
Rincon #265	Basin Fruitland		S30,T27N,R06W
Rincon #266	Basin Fruitland		S30, T27N, R06W
Rincon #267	Basin Fruitland		S31,T27N,R06W
Rincon #268	Basin Fruitland		S31,T27N,R06W
Rincon #269	Basin Fruitland		S12,T26N,R07W
Rincon #270	Basin Fruitland		S12,T26N,R07W
Rincon #271	Basin Fruitland		S01,T26N,R07W
Rincon #272	Basin Fruitland		S01,T26N,R07W
Rincon #273	Basin Fruitland		S36,T27N,R07W
Rincon #274	Basin Fruitland		S36,T27N,R07W
Rincon #275	Basin Fruitland		S24,T27N,R07W
Rincon #276	Basin Fruitland		S13,T27N,R07W
Rincon #277	Basin Fruitland		S13,T27N,R07W
Rincon #278	Basin Fruitland		S14,T27N,R07W
Rincon #279	Basin Fruitland		
Rincon #280	Basin Fruitland	•	S15,T27N,R07W
Rincon #281	Basin Fruitland	•	S23,T27N,R07W
Rincon #282	Basin Fruitland		S22,T27N,R07W
Rincon #283	Basin Fruitland	,	S23,T27N,R07W
		•	• •

Well Name/	Number 1	Formation			Location
******	*****	*****	****	*****	******
Rincon #28	4 Basin	Fruitland	Coal	NE/4	S26,T27N,R07W
Rincon #28	5 Basin	Fruitland	Coal	NE/4	S27,T27N,R07W
Rincon #28	6 Basin	Fruitland	Coal	SW/4	S26,T27N,R07W
Rincon #28	7 Basin	Fruitland	Coal	SW/4	S27,T27N,R07W
Rincon #28	8 Basin	Fruitland	Coal	SW/4	S28, T27N, R07W
Rincon #28	9 Basin	Fruitland	Coal	NE/4	S33,T27N,R07W
Rincon #29	0 Basin	Fruitland	Coal	SW/4	S33,T27N,R07W
Rincon #29	1 Basin	Fruitland	Coal	NE/4	S34, T27N, R07W
Rincon #29	2 Basin	Fruitland	Coal	SW/4	S35,T27N,R07W
Rincon #29	3 Basin	Fruitland	Coal	NE/4	S35, T27N, R07W
Rincon #29	4 Basin	Fruitland	Coal	NE/4	S02, T26N, R07W
Rincon #29	5 Basin	Fruitland	Coal	NE/4	S11, T26N, R07W
Rincon #29	6 Basin	Fruitland	Coal	SW/4	S11, T26N, R07W
Rincon #29	7 Basin	Fruitland	Coal	SW/4	S34, T27N, R07W
Rincon #29	8 Basin	Fruitland	Coal	SW/4	S02, T26N, R07W
Rincon #29	9 Basin	Fruitland	Coal		S06, T26N, R06W
Rincon #30	0 Basin	Fruitland	Coal	NE/4	S06, T26N, R06W
Rincon #30	1 Basin	Fruitland	Coal	SW/4	S25, T27N, R07W
Rincon #30	2 Basin	Fruitland	Coal	NE/4	S25, T27N, R07W
				<u> </u>	•

Unocal believes that all unit drilling obligations have been met, however, additional wells to prevent drainage or to meet any other regulatory or legal requirement will be assessed and drilled as the need arises. This plan has been sent to each Rincon Unit working interest owner. The above drilling development work is subject to partner and management approval.

Yours very truly,

Union Oil Company of California dba UNOCAL

William Hening

William Hering

District Petroleum Engineer

Unocal Oil & Gas Division

Unocal Corporation 3300 North Butler Avenue Suite 200 Farmington, New Mexico 87401 Telephone (505) 326-7600 Fax: (505) 326-6145

# **UNOCAL**

March 15, 1990

#299

Farmington District

U.S. Dept. of the Interior Branch of Land Management Branch of Fluid Minerals Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87504-2088

RE: Revised 1990 Plan of Development

Rincon Unit

Rio Arriba County, NM

### Gentlemen:

Unocal (Union Oil of California) is the operator of the Rincon Unit in Rio Arriba County, New Mexico. As stated in the original plan filed January 8, 1990 last year's Plan of Development included the drilling and completion of ten development gas wells; however, only five of the ten were actually drilled and completed. These include:

Well Na	me/Numbe	er E	Formation			Location
*****	*****	*****	k*****	*****	****	******
Rincon	#239	Basin	Fruitland	Coal	SW/4	S18,T27N,R06W
Rincon	#240	Basin	Fruitland	Coal		S21,T27N,R06W
Rincon			Fruitland			S22,T27N,R06W
Rincon	#242	Basin	Fruitland	Coal	,	S23,T27N,R06W
Rincon	#243	Basin	Fruitland	Coal	SW/4	S27,T27N,R06W

The remaining five wells were reevaluated and not drilled.

Following is the 1990 Plan of Development for the Rincon Unit:

Proposed for the 1990 calendar year is the drilling and completion of fifty-three (53) development gas wells. All will be drilled and completed in the Basin Fruitland Coal Formation. These wells and their proposed locations are presented below.

Well Name	/Number	Formation			Location
*****	****	*****	****	*****	******
Rincon #2	44 Basin	Fruitland	Coal	NE/4	S21,T27N,R06W
Rincon #2	45 Basin	Fruitland	Coal	NE/4	S22,T27N,R06W
Rincon #2	46 Basin	Fruitland	Coal	NE/4	S23,T27N,R06W
Rincon #2	47 Basin	Fruitland	Coal	NE/4	S26,T27N,R06W
Rincon #2	48 Basin	Fruitland	Coal	SW/4	S26,T27N,R06W
Rincon #2	49 Basin	Fruitland	Coal	NE/4	S27,T27N,R06W
Rir.con #2	50 Basin	Fruitland	Coal	NE/4	S28,T27N,R06W
Rircon #2	51 Basin	Fruitland	Coal	SW/4	S28,T27N,R06W
Rincon #2	52 Basin	Fruitland	Coal	NE/4	S18,T27N,R06W
Rincon #2	53 Basin	Fruitland	Coal	SW/4	S17,T27N,R06W
Rincon #2	54 Basin	Fruitland	Coal	NE/4	S20,T27N,R06W
Rincon #2	55 Basin	Fruitland	Coal	SW/4	S20,T27N,R06W
Rincon #2	56 Basin	Fruitland	Coal	SW/4	S16,T27N,R06W
Rincon #2	57 Basin	Fruitland	Coal	NE/4	S16,T27N,R06W
Rincon #2	58 Basin	Fruitland	Coal	NE/4	S17, T27N, R06W
Rincon #2	59 Basin	Fruitland	Coal	NE/4	S29,T27N,R06W
Rincon #2	60 Basin	Fruitland	Coal	NE/4	S32,T27N,R06W
Rincon #2		Fruitland		SW/4	S29,T27N,R06W
Rincon #2	62 Basin	Fruitland	Coal	SW/4	S32,T27N,R06W
Rincon #2	63 Basin	Fruitland	Coal	NE/4	S19,T27N,R06W
Rincon #2	64 Basin	Fruitland	Coal	SW/4	S19,T27N,R06W
Rincon #2	65 Basin	Fruitland	Coal	NE/4	S30,T27N,R06W
Rincon #2	66 Basin	Fruitland	Coal	SW/4	S30,T27N,R06W
Rincon #2	67 Basin	Fruitland	Coal	NE/4	S31,T27N,R06W
Rincon #2	68 Basin	Fruitland	Coal	SW/4	S31,T27N,R06W
Rincon #2	69 Basin	Fruitland	Coal		S12,T26N,R07W
Rincon #2	70 Basin	Fruitland	Coal		S12,T26N,R07W
Rincon #2	71 Basin	Fruitland	Coal		S01,T26N,R07W
Rincon #2	72 Basin	Fruitland	Coal		S01,T26N,R07W
Rincon #2	73 Basin	Fruitland	Coal	SW/4	S36,T27N,R07W
Rincon #2	74 Basin	Fruitland	Coal		S36,T27N,R07W
Rincon #2	75 Basin	Fruitland	Coal		S24,T27N,R07W
Rincon #2	76 Basin	Fruitland	Coal		S13,T27N,R07W
Rincon #2	77 Basin	Fruitland	Coal		S13,T27N,R07W
Rincon #2	78 Basin	Fruitland	Coal		S14,T27N,R07W
Rincon #2	79 Basin	Fruitland	Coal	•	S14,T27N,R07W
Rincon #2	80 Basin	Fruitland	Coal		S15,T27N,R07W
Rincon #2	81 Basin	Fruitland	Coal		S23,T27N,R07W
Rincon #2	82 Basin	Fruitland	Coal		S22,T27N,R07W
Rincon #2	83 Basin	Fruitland	Coal		S23,T27N,R07W
Rincon #2	84 Basin	Fruitland	Coal		S26, T27N, R07W
Rincon #2	85 Basin	Fruitland	Coal		S27, T27N, R07W

Well Na	ame/Numbe	er 1	Formation			Location
****	*****	*****	*****	******	****	******
Rincon	#286	Basin	Fruitland	Coal	SW/4	S26,T27N,R07W
Rincon	#287	Basin	Fruitland	Coal	SW/4	S27,T27N,R07W
Rincon	#288	Basin	Fruitland	Coal	SW/4	S28,T27N,R07W
Rincon	#289	Basin	Fruitland	Coal	NE/4	S33,T27N,R07W
Rincon	#290	Basin	Fruitland	Coal	SW/4	S33,T27N,R07W
Rincon	#291	Basin	Fruitland	Coal	NE/4	S34,T27N,R07W
Rincon	#292	Basin	Fruitland	Coal	SW/4	S35,T27N,R07W
Rincon	#293	Basin	Fruitland	Coal	NE/4	S35,T27N,R07W
Rincon	#294	Basin	Fruitland	Coal	NE/4	S02,T26N,R07W
Rincon	#295	Basin	Fruitland	Coal	NE/4	S11,T26N,R07W
Rincon	#296	Basin	Fruitland	Coal	SW/4	S11,T26N,R07W

Unccal believes that all unit drilling obligations have been met, however, additional wells to prevent drainage or to meet any other regulatory or legal requirement will be assessed and drilled as the need arises. This plan has been sent to each Rincon Unit working interest owner. The above drilling development work is subject to partner and management approval.

Yours very truly,

Union Oil Company of California

William Herin

William Hering

District Petroleum Engineer

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SCRLE IN FEET

Unocal Oil & Gas Division Unocal Corporation 3300 North Butler Avenue Suite 200 Farmington, New Mexico 87401 Telephone (505) 326-7600 Fax: (505) 326-6145

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March 15, 1990

Farm ngton District

U.S. Dept. of the Interior Branch of Land Management Branch of Fluid Minerals Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87504-2088

> RE: Revised 1990 Plan of Development Rincon Unit Rio Arriba County, NM

### Gentlemen:

Unocal (Union Oil of California) is the operator of the Rincon Unit in Rio Arriba County, New Mexico. As stated in the original plan filed January 8, 1990 last year's Plan of Development included the drilling and completion of ten development gas wells; however, only five of the ten were actually drilled and completed. These include:

Well Name/Numb	er Formatio	n		Location
********	******	******	******	*******
Rincon #239	Basin Fruitla	nd Coal	SW/4	S18,T27N,R06W
Rincon #240	Basin Fruitla	nd Coal		S21,T27N,R06W
Rincon #241	Basin Fruitla		•	S22,T27N,R06W
Rincon #242	Basin Fruitla		,	S23,T27N,R06W
Rincon #243	Basin Fruitla	nd Coal	SW/4	S27,T27N,R06W

The remaining five wells were reevaluated and not drilled.

Following is the 1990 Plan of Development for the Rincon Unit:

Proposed for the 1990 calendar year is the drilling and completion of fifty-three (53) development gas wells. All will be drilled and completed in the Basin Fruitland Coal Formation. These wells and their proposed locations are presented below.

Well Name/Num	oer I	Formation			Location
well Name/Num	7 <b>77777</b> 7	OIMACION	******	*****	*****
Rincon #244		Fruitland			S21,T27N,R06W
Rincon #244		Fruitland			S22,T27N,R06W
Rincon #245		Fruitland			S23,T27N,R06W
Rincon #247		Fruitland		•	S26,T27N,R06W
Rincon #247		Fruitland		•	S26, T27N, R06W
Rincon #249		Fruitland			S27, T27N, R06W
		Fruitland			S28,T27N,R06W
Rincon #250 Rincon #251		Fruitland		•	S28, T27N, R06W
Rincon #251		Fruitland			S18,T27N,R06W
		Fruitland		-	S17, T27N, R06W
Rincon #253		Fruitland		•	S20,T27N,R06W
Rincon #254		Fruitland		•	•
Rincon #255		Fruitland		•	S20, T27N, R06W
Rincon #256					S16, T27N, R06W
Rincon #257		Fruitland Fruitland			S16,T27N,R06W
Rincon #258					S17, T27N, R06W
Rincon #259		Fruitland		,	S29, T27N, R06W
Rincon #260		Fruitland			S32,T27N,R06W
Rincon #261		Fruitland			S29,T27N,R06W
Rincon #262		Fruitland		•	S32,T27N,R06W
Rincon #263		Fruitland		,	S19,T27N,R06W
Rincon #264		Fruitland			S19,T27N,R06W
Rincon #265		Fruitland		•	S30, T27N, R06W
Rincon #266		Fruitland		•	S30,T27N,R06W
Rincon #267		Fruitland			S31,T27N,R06W
Rincon #268		Fruitland		•	S31,T27N,R06W
Rincon #269		Fruitland			S12,T26N,R07W
Rincon #270		Fruitland			S12,T26N,R07W
Rincon #271		Fruitland			S01,T26N,R07W
Rincon #272		Fruitland			S01,T26N,R07W
Rincon #273		Fruitland			S36,T27N,R07W
Rincon #274		Fruitland			S36,T27N,R07W
Rincon #275		Fruitland			S24,T27N,R07W
Rincon #276		Fruitland			S13,T27N,R07W
Rincon #277		Fruitland		,	S13,T27N,R07W
Rincon #278		Fruitland			S14,T27N,R07W
Rincon #279		Fruitland			S14,T27N,R07W
Rincon #280		Fruitland			S15,T27N,R07W
Rincon #281		Fruitland			S23,T27N,R07W
Rincon #282		Fruitland			S22,T27N,R07W
Rincon #283		Fruitland			S23,T27N,R07W
Rincon #284		Fruitland			S26,T27N,R07W
Rincon #285	Basin	Fruitland	Coal	NE/4	S27,T27N,R07W

Well Na	ame/Numbe	er E	Formation			Location
*****	*****	*****	*****	******	****	******
Rincon	#286	Basin	Fruitland	Coal	SW/4	S26,T27N,R07W
Rircon	#287	Basin	Fruitland	Coal	SW/4	S27,T27N,R07W
Rir.con	#288	Basin	Fruitland	Coal	SW/4	S28,T27N,R07W
Rircon	#289	Basin	Fruitland	Coal	NE/4	S33,T27N,R07W
Rincon	#290	Basin	Fruitland	Coal	SW/4	S33,T27N,R07W
Rincon	#291	Basin	Fruitland	Coal	NE/4	S34,T27N,R07W
Rircon	#292	Basin	Fruitland	Coal	SW/4	S35,T27N,R07W
Rircon	#293	Basin	Fruitland	Coal	NE/4	S35,T27N,R07W
Rir.con	#294	Basin	Fruitland	Coal	NE/4	S02,T26N,R07W
Rircon	#295	Basin	Fruitland	Coal	NE/4	S11,T26N,R07W
Rircon	#296	Basin	Fruitland	Coal	SW/4	S11,T26N,R07W

Unccal believes that all unit drilling obligations have been met, however, additional wells to prevent drainage or to meet any other regulatory or legal requirement will be assessed and drilled as the need arises. This plan has been sent to each Rircon Unit working interest owner. The above drilling development work is subject to partner and management approval.

Yours very truly,

Union Oil Company of California dba UNOCAL

William Hering

District Petroleum Engineer

William Hering

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Legend	CENTRAL PROJON		NO DIVISION	CASPER DISTRICT
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# '90 Mar 30 **am 9 2**0

Rincon Unit (POD) 3180 (019)

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Unocal Oil and Gas Attn: William Hering 3300 North Bulter Avenue, Suite 200 Farmington, NM 87401

### Genclemen:

One approved copy of the First Revision of your 1990 Plan of Development for the Rincon Unit area, Rio Arriba County, New Mexico, is enclosed. Such plan, proposing the drilling of an additional 38 Fruitland Coal wella (Rincon No. 259 through No. 296) was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility of drainage by wells outside of the unit boundary may exist. You will be contacted at a later date about this possibility.

If you have any questions, please contact Gail Keller at the above address or telaphone (505) 327-5344.

Sincerely,

Joel Farrell

John Keller
Chief, Branch of Minerals

### Enclosure

cc: New Mexico Oil Conservation Division, 310 Cld Santa Fe Trail, Room 205, Santa Fe, NM 87503 Commissioner of Public Lands, State of New Mexico, P. O. Box 1148, Santa Fe, NM 87504 Unocal Oil & Gas Division Unocal Corporation 3300 North Butler Avenue

Suite 200 Farmington, New Mexico 87401 Telephone (505) 326-7600-

Fax: (505) 326-6145

TOTAL DIVISION

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February 2, 1990

Farmington District

U.S. Dept. of the Interior Branch of Land Management Branch of Fluid Minerals Farmington Resource Area 1235 La Plata Highway Farmington, NM 87401

Commissioner of Public Lands State of New Mexico P.O. Box 1148 Santa Fe, NM 87504-1148

Oil Conservation Division State of New Mexico P.O. Box 2088 Santa Fe, NM 87504-2088 UNIT LETTER THX 124

RE: 1990 Plan of Development Rincon Unit

Rio Arriba County, NM

### Gentlemen:

Unocal (Union Oil of California) is the operator of the Rincon Unit in Rio Arriba County, New Mexico. Last year's Plan of Development included the drilling and completion of ten development gas wells; however, only five of the ten were actually drilled and completed. These include:

Well Name/Numb	per Formation	I	ocation
********	******	******	******
Rincon #239	Basin Fruitlan	d Coal SW/4 S	318,T27N,R06W
Rincon #240	Basin Fruitlan		321,T27N,R06W
Rincon #241	Basin Fruitlan	,	322,T27N,R06W
Rincon #242	Basin Fruitlan	,	323,T27N,R06W
Rincon #243	Basin Fruitlan	d Coal SW/4 S	327,T27N,R06W

The remaining five wells were reevaluated and not drilled. Following is the 1990 Plan of Development for the Rincon Unit.

Proposed for the 1990 calendar year is the drilling and completion of fifteen (15) development gas wells. All will be drilled and completed in the Basin Fruitland Coal Formation. These wells and their proposed locations are presented below.

Well Na	ame/Numbe	er I *****	Formation	*****	****	Location *******
Rincon			Fruitland			S21,T27N,R06W
Rincon	••		Fruitland		•	S22,T27N,R06W
Rincon	#246	Basin	Fruitland	Coal	NE/4	S23,T27N,R06W
Rincon	#247	Basin	Fruitland	Coal	NE/4	S26,T27N,R06W
Rincon	#248	Basin	Fruitland	Coal	SW/4	S26,T27N,R06W
Rincon	#249	Basin	Fruitland	Coal	NE/4	S27,T27N,R06W
Rincon	#250	Basin	Fruitland	Coal	NE/4	S28,T27N,R06W
Rincon	#251	Basin	Fruitland	Coal	SW/4	S28,T27N,R06W
Rincon	#252	Basin	Fruitland	Coal	NE/4	S18,T27N,R06W
Rincon	#253	Basin	Fruitland	Coal	SW/4	S17,T27N,R06W
Rincon	#254	Basin	Fruitland	Coal	NE/4	S20,T27N,R06W
Rincon	#255	Basin	Fruitland	Coal	SW/4	S20,T27N,R06W
Rincon	#256	Basin	Fruitland	Coal	SW/4	S16,T27N,R06W
Rincon	#257	Basin	Fruitland	Coal	•	S16,T27N,R06W
Rincon	#258	Basin	Fruitland	Coal	NE/4	S17,T27N,R06W

Unocal believes that all unit drilling obligations have been met, however, additional wells to prevent drainage or to meet any other regulatory or legal requirement will be assessed and drilled as the need arises. This plan has been sent to each Rincon Unit working interest owner. The above drilling development work is subject to partner and management approval.

Yours Very Truly,

William Ferring

William Hering

District Petroleum Engineer

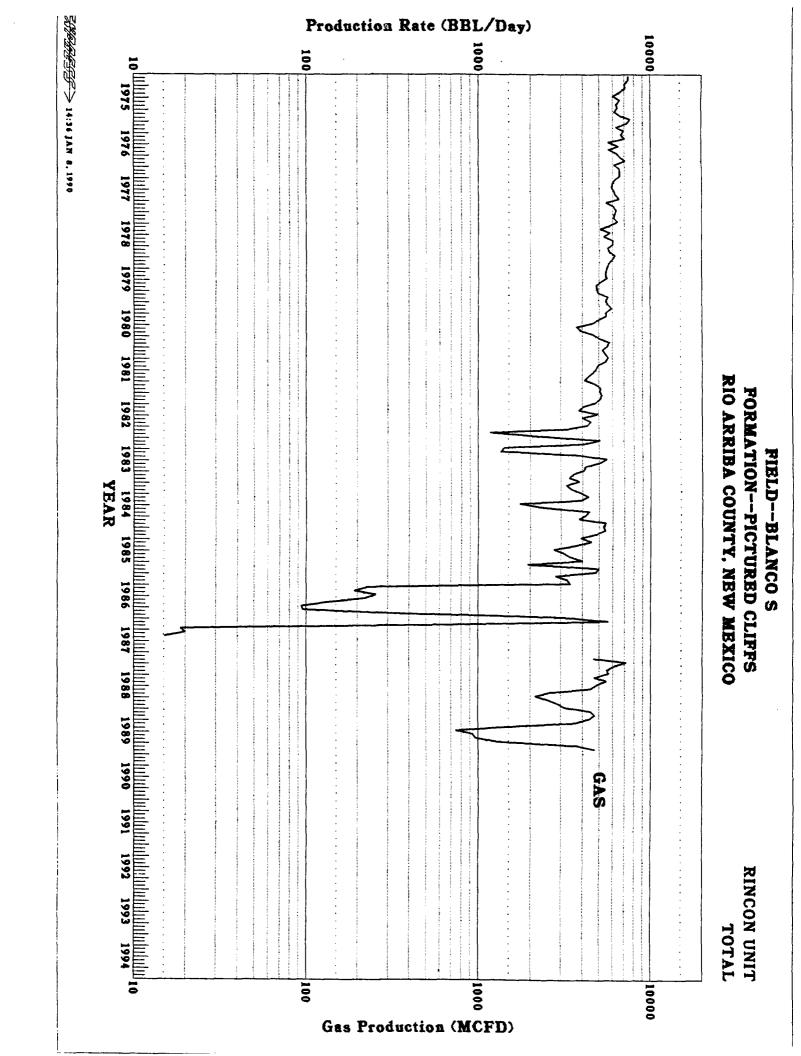
# RINCON UNIT PRODUCTION WELLS

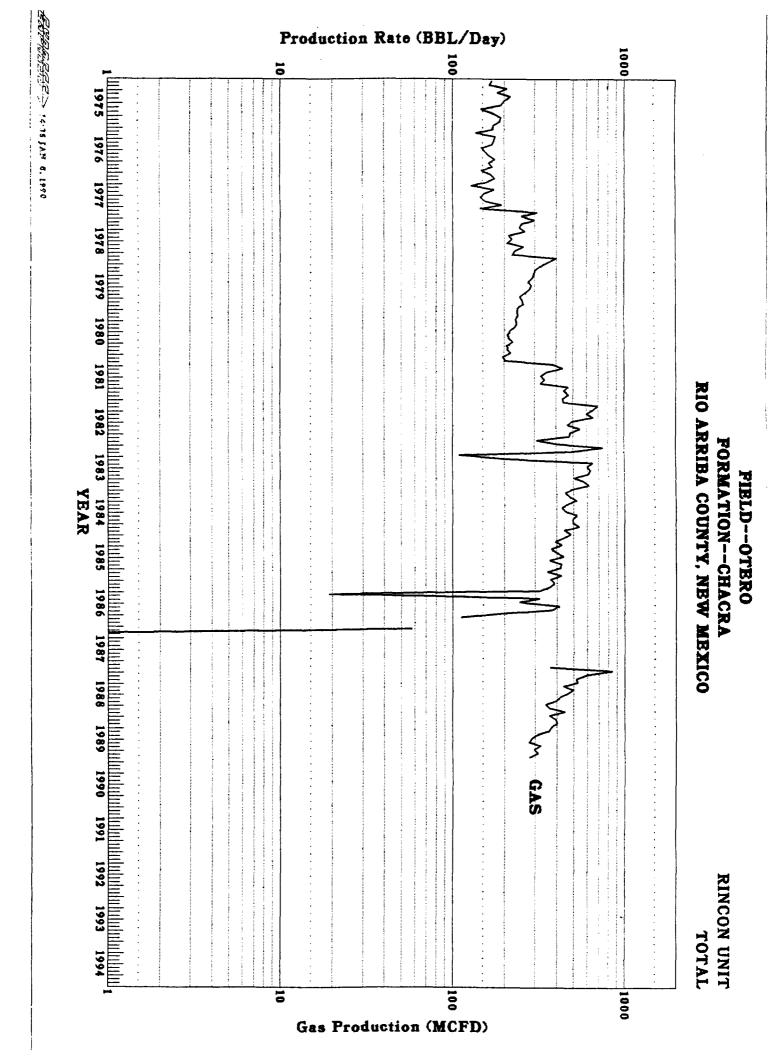
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Pictured Cliffs/Mesa Verde Duals in P.A.	9
Mesa Verde in P.A.	28
Mesa Verde Non-P.A.	2
Mesa Verde/Chacra Duals in P.A.	4
Mesa Verde/Dakota Duals in P.A.	6
Mesa Verde/Dakota Duals Non-P.A.	5
Dakota in P.A.	47
Dakota Non-P.A.	1
Gallup/Dakota Dual in P.A.	1
Chacra in P.A.	8
Fruitland	5
Total	_223
Total Less P.A.'s	_220

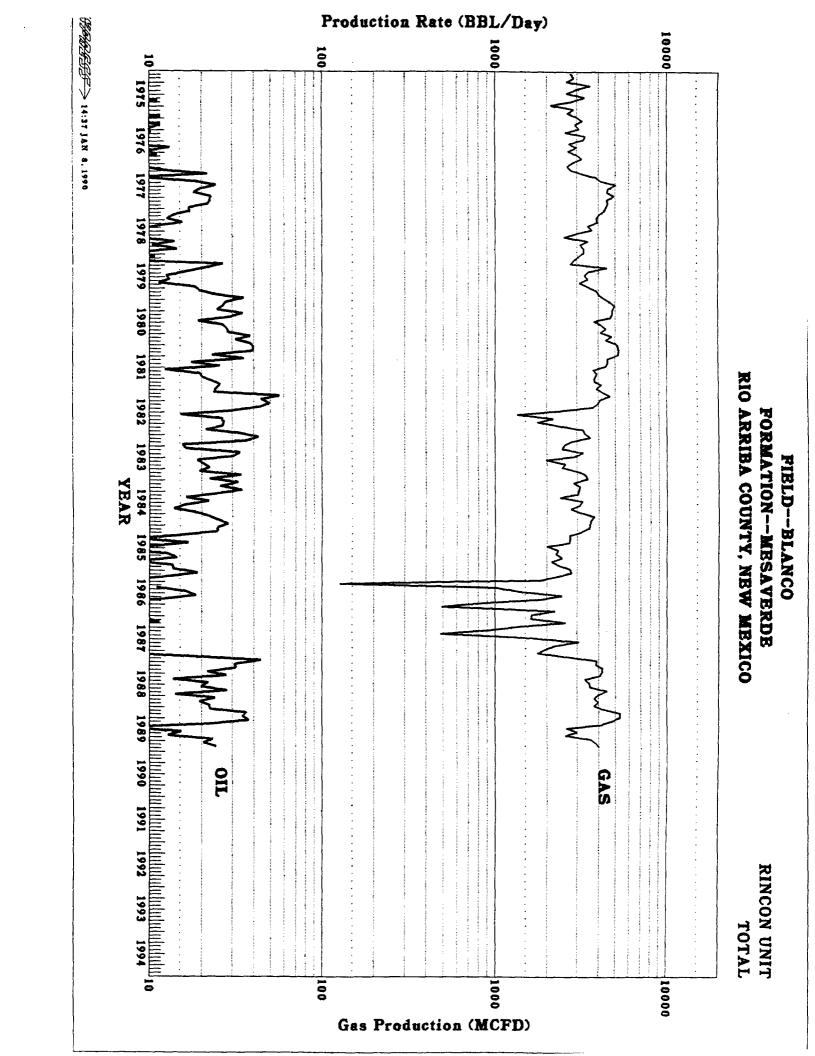
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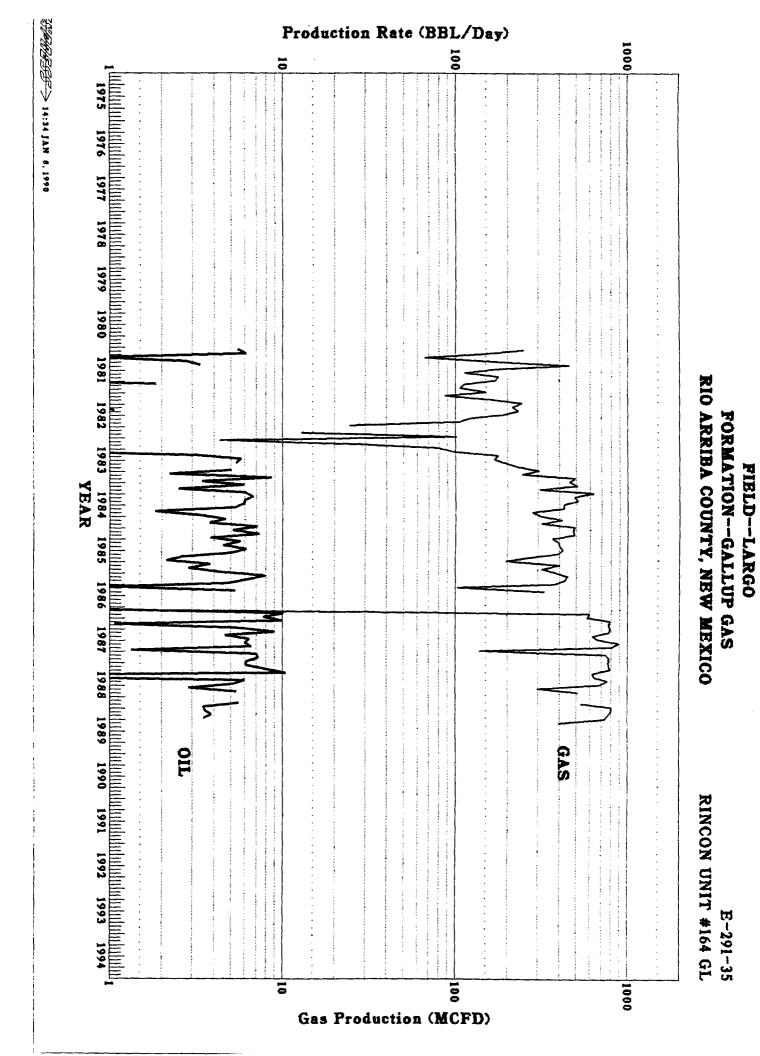
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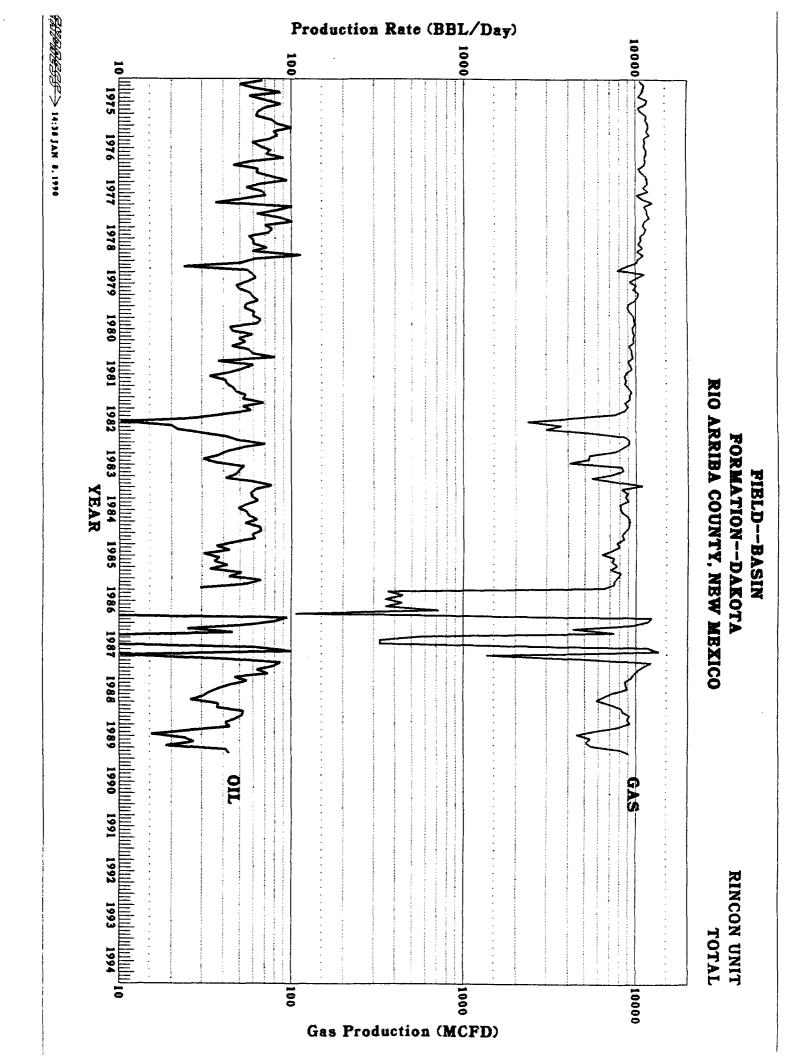
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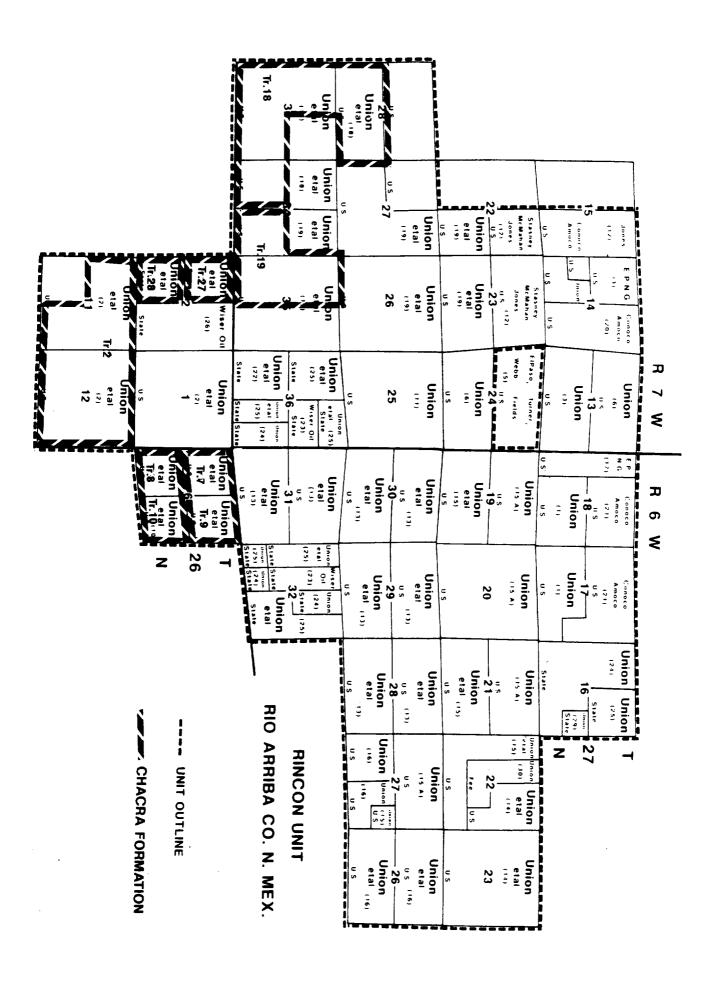












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Unocal Oil & Gas Division Unocal Corporation 913 West Broadway, P.O. Box 850 Bloomfield, New Mexico 87413 Telephone (505) 632-1811



July 21, 1989

JUL 24 1989
OIL CONSERVATION DIV.

Bureau of Land Management Minerals Division Attn: Gary Stevens, District Supervisor 1235 LaPlata Highway Farmington, New Mexico 87401

> RE: Application for an Initial Participating Area - Gallup Formation - Rincon Unit

### Gentlemen:

Enclosed please find two copies of the Application for Approval for an Initial Gallup Participating Area in the Rincon Unit. Enclosed also are geologic and engineering data in support of the application.

Union Oil Company of California, as operator of the Rincon Unit, respectfully requests your approval of the application.

Very Truly Yours,

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Paul West

District Production Manager

XC: Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148

Oil Conservation Division
New Mexico Department of Energy & Minerals
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WH/sl

APPLICATION FOR APPROVAL OF AN INITIAL GALLUP PARTICIPATING AREA - RINCON UNIT - RIO ARRIBA COUNTY, NEW MEXICO

Gary Stevens
District Supervisor
Bureau of Land Management - Minerals Division
1235 LaPlata Highway
Farmington, New Mexico 87401

Union Oil Company of California, as unit operator of the Rincon Unit, respectfully submits for your approval the following described lands to constitute the initial participating area for the Gallup producing formation, to wit:

TOWNSHIP 26 NORTH, RANGE 7 WEST, N.M.P.M.

Section 2: West/2

Containing 320.68 acres, more or less

In support of this application, and in addition to the geologic and engineering reports, the following are attached:

- 1) Structure Top Gallup SS
- 2) Gallup SS Gross Isopach
- 3) Stratigraphic Cross-Section
- 4) Land Map Rincon Unit
- 5) Rincon Unit #164 Gallup Production Decline Curve
- 6) Rincon Unit #164 Gallup Economics
- 7) Schedule of Lands and Working Interest Ownership in the Initial Gallup Participating Area (Participation Allocation Formula)
- 8) Applicant's Statement and Affidavit

This proposed application is predicated on the past production history from the Rincon Unit #164 well completed in the Gallup Formation September 22, 1980 in the NW/4 of the SW/4, Section 2, T26N-R7W.

Applicant respectfully requests your approval of the hereinabove selection of lands to constitute the initial Gallup Formation participating area, to be effective September 22, 1980.

Dated this 21st day of July, 1989.

Paul West

District Production Manager Union Oil Company of California

# Well Summary

LOCATION: 1840' FSL, 1090' FWL, Sec. 2, T26N, R7W WELL NAME: Rincon Unit #164

ELEVATION: 6521' GL TOTAL DEPTH: 7406'

LEASE NUMBER: NM-E-291-35

POOL/FORMATION: Basin Dakota SPUD DATE: 08-09-69 Completion Date: 09-25-69 First Delivery: 10-30-69

Perf'd Interval: 7050' -7254'

POOL/FORMATION: Largo Gallup SPUD DATE: 08-31-80

Completion Date: 09-22-80 First Delivery: 12-09-80

Perf'd Interval: 6211' - 6562' COMMINGLING ORDER: NMOCD #R-6375 Dakota: 31% Gas-13% Condensate Gallup: 69% Gas-87% Condensate

# Geologic Summary

The Gallup was deposited as a series of sand bars on a continental shelf environment. The South Blanco Tocito (oil) and Largo Gallup (gas) fields produce from a single, continuous sand bar running east to west across the area. The bar is composed of two sandstone sequences and an intervening shaley section. Total gross sand thickness reaches a maximum of 46'. This sand bar acts as a single reservoir with the Largo Gallup Field being the gas cap. The original gas/oil contact runs roughly NW to SE through Section 6, T26N, R6W, and the extreme southern portion of Section 36, T27N, R7W. As a result of oil production, the gas cap has expanded and moved these contacts downdip. Stratigraphic Cross Section A-A' shows the two-lobed nature of the sand bar, as well as the abrupt pinchout of the sand in a north-south direction. However, continuity of the sand is quite good in an east-west direction.

Formation Tops:

Pictured Cliffs	ctured Cliffs 2745'	
Mesa Verde:		
Cliff House	4413'	(+2119')
Point Lookout	5048'	(+1484')
Gallup	6542'	(- 10')
Greenhorn	6935'	(- 403')
Graneros	6996'	(- 464')
Dakota	7100'	(- 568')

# **Engineering Summary**

The Rincon Unit #164 was drilled and completed originally as a Basin Dakota gas producer by El Paso Natural Gas Company in 1969. The decline in Dakota production and the recognition of prolific Gallup gas production from offset non-unit wells led to the testing and completion of the Gallup Formation in this well by EPNG in 1980. After setting a bridge plug above the Dakota, the Gallup was perforated from 6211' to 6562' with 16 shots and fracture stimulated with 164,600# 20/40 sand, 39,050# 10/20 sand, and 121,000 gallons water. No after-frac gas gauge was obtained since the well initially produced large amounts of condensate. Downhole commingling of the Dakota and Gallup was approved by the NMOCD in 1980 and production was split using

# Engineering Summary (con't)

the state set allocation formula given in the well summary section. As shown on the attached decline curve, production gradually increased. This may have been due to line pressure decrease and also to formation clean-up. The current deliverability for both the Dakota and Gallup is 343 and 763 MCF/D, respectively.

Volumetrics calculated on the below-listed parameters yeilds a recoverable gas volume of 2.3 Bcf. This volume compares favorably with decline curve reserves of 2.2 Bcf.

Net Pay: 28 Ft.

Drainage Area: 260 Acres Average Porosity: 14%

Average Water Saturation: 45%

Initial gas formation volume factor: 0.010 cu. ft/SCF Abandonment gas formation volume factor: 0.190 cu. ft/SCF

### **Economics**

Gallup Completion Cost: \$75,040.00

Royalty Burden: 12.50%

Gas Price: \$0.85/MCF escalated to current of \$1.30/MCF

Condensate Price: Maximum - \$36./bbl., Minimum - \$13./bbl.,

Current - \$15./bbl.

Operating Cost: \$150./month

Production Rate: Maximum - 750 MCF/D, Minimum - 90 MCF/D,

Current - 480 MCF/D

Economics based on the above are attached. Given the \$75,040.00 cost to complete the Gallup zone the workover payed out in 2.0 years. The total expenses shown on the attachment include overhead as well as direct and indirect charges. Compared with gross annual revenue (GAR) the Gallup has and continues to produce in economic quantities above operating costs.