

Unocal Oil & Gas Division

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

RECEIVED
JUL 5 AM 8 50



June 28, 1994

CERTIFIED--RETURN RECEIPT REQUESTED

New Mexico Oil Conservation Division
Attn: Mr. William J. LeMay
P. O. Box 2088
Santa Fe, NM 87504-2088

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

Dear Sirs:

Union Oil Company of California (UNOCAL) requests permission to downhole commingle production from the Blanco Mesaverde and Basin Dakota formations in the following wells in Rio Arriba County, New Mexico:

<u>WELL</u>		<u>LOCATION</u>
Rincon Unit No. 138E	790' FSL, 790' FEL	Sec. 25, T27N, R7W
Rincon Unit No. 133E	790' FNL, 445' FWL	Sec. 14, T27N, R7W
Rincon Unit No. 128M	1175' FSL, 1885' FEL	Sec. 28, T27N, R6W
Rincon Unit No. 139E	1980' FNL, 1980' FWL	Sec. 25, T27N, R7W
Rincon Unit No. 178E	1500' FSL, 1290' FEL	Sec. 23, T27N, R7W
Rincon Unit No. 131E	1145' FNL, 1525' FWL	Sec. 36, T27N, R7W
Rincon Unit No. 185E	2100' FSL, 1610' FEL	Sec. 22, T27N, R7W
Rincon Unit No. 149E	1900' FNL, 1365' FWL	Sec. 30, T27N, R7W

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

In 1993, UNOCAL tested 22 Blanco Mesaverde/Basin Dakota wells for downhole commingling in the Rincon Unit. Every well subsequently qualified. Because of the extensive bottomhole pressure data and productivity data currently available, UNOCAL proposes to allocate production based on the average allocation factor of these wells.

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

1. An acreage dedication plat showing offset lease ownership.
2. A Form C-116 showing current productivity from each zone.
3. A wellbore diagram with completion detail.
4. A measured bottomhole pressure from each zone and a calculated adjustment to a common datum.
5. Gas analyses from each zone.
6. An allocation formula for commingled production.
7. A copy of the notification letter sent to all offset operators and the Bureau of Land Management.

The Blanco Mesaverde formation is uneconomic to drill as a stand alone well. To develop these reserves, a dual or commingled completion is required. We estimate an ultimate recovery of 530 MMCF from the Mesaverde horizon, which would otherwise remain undeveloped. Also, commingling will allow for better lift of liquids production and benefits from compression.

Both zones produce essentially dry gas. Therefore, the respective formation fluids are compatible. Also, no crossflow will occur between the commingled zones.

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

Sincerely,

Union Oil Company of California
dba UNOCAL



Bob Caine
Field Foreman

Attachments
DLD

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

23	EL PASO 79298C 24	19
26	25	30
35	36	31

T 27 N

RINCON UNIT #138E

OFFSET LEASE OWNERSHIP

R 7 W

EL PASO 78972 10	EL PASO 78972 11	AMOCO 79298B 12
EL PASO 78640 15	14	13
	22	EL PASO 79298C 24

T 27 N

OFFSET LEASE OWNERSHIP

R 6 W

20	21	22
29	28	27
32	CAULKINS 3547 33	EL PASO SF079210 34
	CAULKINS 3547	CAULKINS 3547

T 27 N

RINCON UNIT #128M

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

23	EL PASO 79298C 24	19
26	RINCON UNIT #139E 25	30
35	36	31

T 27 N

OFFSET LEASE OWNERSHIP

R 7 W

EL PASO 78640 15	14	13
22	23	EL PASO 79298C 24
27	26	25

T 27 N

RINCON UNIT #178E

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

26	25	30
35	36	31
2	1	6

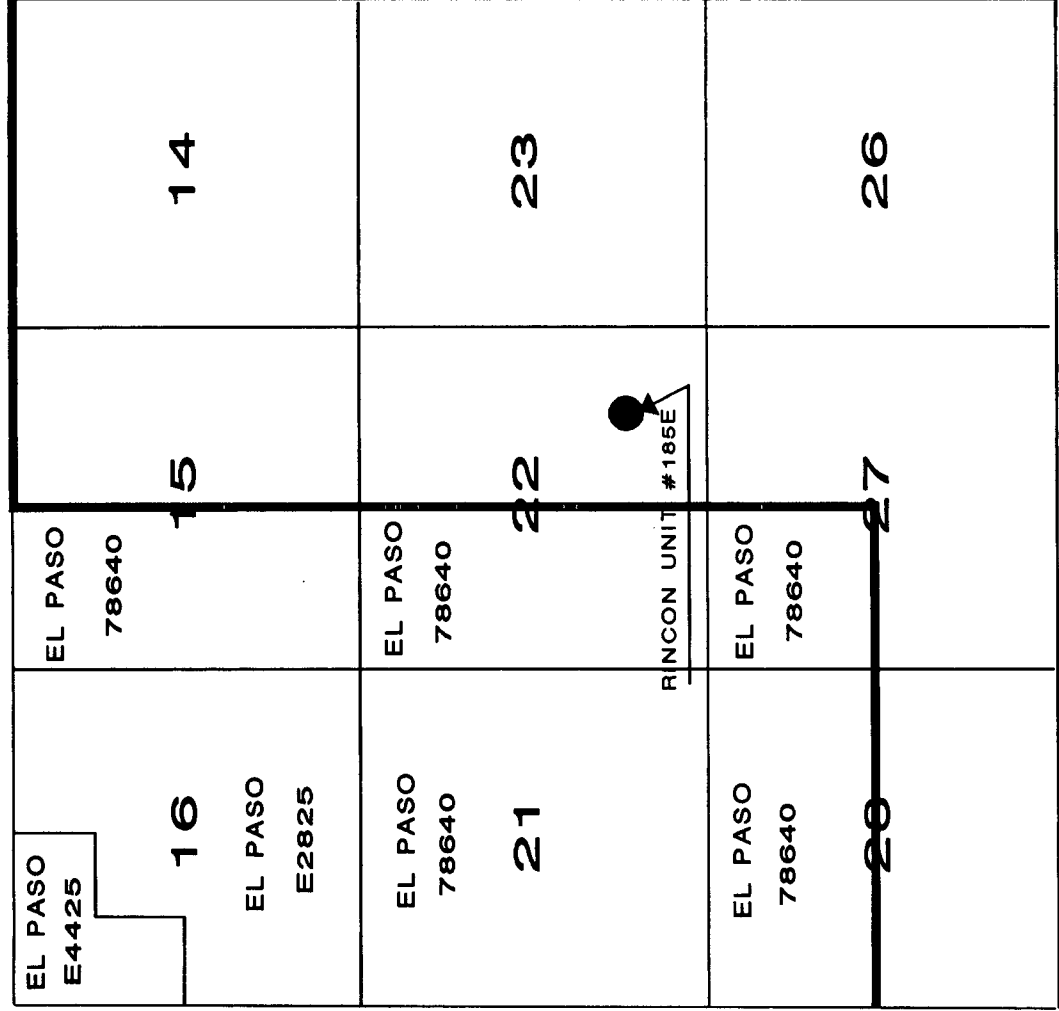
RINCON UNIT #131E

T 27 N

T 26 N

OFFSET LEASE OWNERSHIP

R 7 W



T 27 N

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

24	19	20
25	30	29
36	31	32

RINCON UNIT #149E

T 27 N

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator Union Oil Company of California		Pool Blanco Mesaverde/Basin Dakota		County Rio Arriba										
Address 3300 N. Butler, Suite 200, Farmington, NM 87401		TYPE OF TEST - (X)		Completion ☐ Special ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	1E	G	30	27	6					24	4	0	457	-
Blanco Mesaverde						9/21/92	F	48/64"	300					
Basin Dakota						9/14/92	F	48/64"	280	24	16	0	748	-

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

W.L. Irwin District Petroleum Engineer

Printed name and title

Date

10/29/92

Telephone No

(505) 326-7600

Submit 2 copies to Appropriate District Office.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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GAS - OIL RATIO TEST

Operator		Pool		County									
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba									
Address		TYPE OF TEST - (X)		Completion		Special							
3300 N. Butler, Suite 200, Farmington, NM 87401		SCHEDULED		X									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
Rincon Unit	125M	F	26	27N	6W	12/10/92	F	14/64"	370	24	-0-	-	-
Blanco Mesaverde						12/18/92	F	15/64"	270	24	-0-	-	-
Basin Dakota													

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp

Printed name and title

August 5, 1993

Date

Field Superintendent

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410.

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Energy, Minerals and Natural Resources Department

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Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator UNION OIL COMPANY OF CALIFORNIA		Pool BLANCO MESAVERDE/BASIN DAKOTA		County RIO ARriba										
Address 3300 NORTH BUTLER, SUITE 200, FARMINGTON, NEW MEXICO 87401		TYPE OF TEST - (X)		Completion ☒ Special ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
RINCON UNIT	126	N	27	27N	6W	11/93	F 64/64"	282		24	-0-	0.4	30	75,000
BLANCO MESAVERDE						11/93	F 64/64"	292		24	-0-	1.0	145	145,000
BASIN DAKOTA														

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.
specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.

See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.


Signature

GLEN O. PAPP

FIELD SUPERINTENDENT

Printed name and title

JANUARY 7, 1994
Date

(505)326-7600
Telephone No.

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐ Special ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	126M	P	27	27N	6W	11/10/92	F 16/64"	250		24	4	-0-	234	--
Blanco Mesaverde						11/19/92	F 18/64"	280		24	11	-0-	217	--
Basin Dakota														

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Glen O. Papp
Signature

Glen O. Papp Field Superintendent
Printed name and title

August 5, 1993 (505) 326-7600

Date Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

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OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator UNION OIL COMPANY OF CALIFORNIA		Pool BLANCO MESAVERDE/BASIN DAKOTA		County RIO ARRIBA									
Address 3300 NORTH BUTLER, SUITE 200, FARMINGTON, NEW MEXICO 37401				TYPE OF TEST - (X)		Completion ☐ Scheduled ☐		Special ☐					
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
RINCON UNIT	127	A	28	27N	6W								
BLANCO MESAVERDE						F	64/64"	285		11/93		-0-	40
BASIN DAKOTA						F	64/64"	291		11/93		-0-	165
													110,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

GLEN O. PAPP

FIELD SUPERINTENDENT

Printed name and title

JANUARY 7, 1994

Date

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County									
UNION OIL COMPANY OF CALIFORNIA		BLANCO MESAVERDE/BASIN DAKOTA		RIO ARRIBA									
Address		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐ Special ☐									
3300 N. Butler, Suite 200, Farmington, NM 87401													
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU/FT/BBL.
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
Rincon Unit Blanco Mesaverde Basin Dakota	127M	D	28	27N	6W	11/25/92	F	48/64"	30	24	-0-	88	---

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301 Rule 1116 & amendments and rules)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp Field Superintendent

Printed name and title

August 4, 1993 (505) 326-7600

Date

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

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Energy, Minerals and Natural Resources Department

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P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
UNION OIL COMPANY OF CALIFORNIA		BLANCO MESAVERDE/BASIN DAKOTA		RIO ARRIBA										
Address		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐ Special ☐										
3300 NORTH BUTLER, SUITE 200, FARMINGTON, NEW MEXICO 87401														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.
RINCON UNIT	128	L	28	27N	6W	11/93	F 64/64"	285			-0-	-0-	32	--
BLANCO MESAVERDE						11/93	F 64/64"	292			-0-	-0-	160	106,667
BASIN DAKOTA														

Instructions:

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(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

GLEN O. PAPP

Printed name and title

JANUARY 7, 1994

Date

FIELD SUPERINTENDENT

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County								
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba								
Address				TYPE OF TEST - (X)		Completion		Special				
3300 North Butler, Suite 200, Farmington, New Mexico 87401												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO CU FT/BBL
		U	S	T						R	WATER BBL.	
Rincon Unit	129	K	29	27N	6W							
Blanco Mesaverde						11/93	F 64/64"	292		24	-0-	11
Basin Dakota						11/93	F 64/64"	297		24	-0-	130
												162,500

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

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See Rule 301, Rule 1116 & appropriate pool rules

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp

Printed name and title

December 30, 1993

Date

Field Superintendent

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

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Operator	Union Oil Company of California		Pool		Blanco Mesaverde / Basin Dakota		County		Rio Arriba						
Address	3300 N. Butler, Suite 200, Farmington, NM 87401				TYPE OF TEST - (X)	Scheduled ☐	Completion ☒	Special ☐							
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL.		
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS M.C.F.
Rincon Unit	129M	P	29	27N	6W	10/19/92	F 11/64"	100		24	6	55	2	110	55,000
Blanco Mesa verde						10/10/92	F 17/64"	260		24	8		0	290	-----
Basin Dakota															

Instructions:

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(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

W.L. Irwin
Signature

Signature

W.L. Irwin District Petroleum Engineer
Printed name and title

11/19/92
Date

505/326-7600
Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

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Energy, Minerals and Natural Resources Department

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Revised 1/1/89

GAS - OIL RATIO TEST

Operator Union Oil Company of California		Pool Blanco Mesaverde/Basin Dakota		County Rio Arriba										
Address 3300 North Butler, Suite 200, Farmington, New Mexico 87401		TYPE OF TEST - (X)		SCHEDULED ☐ COMPLETION ☒ SPECIAL ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Kincon Unit Elanco Mesaverde Basin Dakota	130	A	32	27N	6W	11/93	F 64/64"	298		24	-0-	0.4	34	85,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

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(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp

Field Superintendent

Printed name and title

December 30, 1993

Date

Telephone No.

Submit 2 copies to Appropriate District Office.

State of New Mexico
Energy, Minerals and Natural Resources Department

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DISTRICT I

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Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion ☐ Special ☐										
3300 N. Butler, Suite 200, Farmington, NM 87401		Scheduled ☐												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
Rincon Unit	135	B	29	27N	6W									
Blanco Mesaverde						F	64/64"	287	11/93	24	-0-	0.2	48	240,000
Basin Dakota						F	64/64"	286	11/93	24	-0-	0.5	111	222,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Glen O. Papp

Signature

Glen O. Papp

Field Superintendent

Printed name and title

December 17, 1993

(505)326-7600

Date

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
UNION OIL COMPANY OF CALIFORNIA		BLANCO MESAVERDE/BASIN DAKOTA		RIO ARRIBA										
Address		TYPE OF TEST - (X)		Completion		Special								
3300 N. Butler, Suite 200, Farmington, NM 87401		SCHEDULED		X										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL.	
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.
Rincon Unit	136E	U	23	27N	7W	12/11/92	14/64"	260		24	-0-	-0-	74	-
Blanco Mesaverde						12/19/92	18/64"	460		24	16	-0-	828	-
Basin Dakota														

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp
Printed name and title

Field Superintendent

August 6, 1993

(505) 326-7600

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Submit 2 copies to Appropriate
District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410.

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Scheduled		Completion		Special						
3300 N. Butler, Suite 200, Farmington, NM 87401														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	137	K	24	27N	7W	11/93	F 64/64"	294		-0-			17	--
Blanco Mesaverde Basin Dakota						11/93	F 64/64"	288		-0-			112	560,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Glenn O. Papp

Signature

Glenn O. Papp

Field Superintendent

Printed name and title

December 17, 1993

(505) 326-7600

Date

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion		Special								
3300 N. Butler, Suite 200, Farmington, NM 87401		Scheduled		xx										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.	GRAV. OIL		OIL BBL.
Rincon Unit	149	N	30	27N	6W	07/93	F 64/64"	115		24	-0-	-0-	19	--
Blanco Mesaverde Basin Dakota						07/93	F 64/64"	114		24	-0-	0.25	147	588,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Glen O. Papp
Signature

Glen O. Papp

Field Superintendent

Printed name and title

December 17, 1993

Date

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐ Special ☐										
3300 N. Butler, Suite 200, Farmington, NM 87401														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	151M	0	14	27N	7W	10/25/92	F 19/64"	275		24	-0-	-0-	221	--
Blanco Mesaverde						11/ 1/92	F 15/64"	455		24	3	-0-	559	--
Basin Dakota														

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in which well can be assigned increased allowables when authorized by the Division.

Tested in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

Run through casing.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Glen O. Papp

Signature

Glen O. Papp

Printed name and title

August 6, 1993

Field Superintendent

(505) 326-7600

Submit 2 copies to Appropriate
District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde / Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion ☒ Special ☐										
3300 N. Butler, Suite 200, Farmington NM 87401		SCHEDULED												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL.	
		U	S	T						R	WATER BBL'S.	GRAV. OIL		OIL BBL'S.
Rincon Unit	159M	F	18	27N	6W									
Blanco Mesaverde						9/08/92	F 24/64"	210		24	7	0	764	---
Basin Dakota						9/02/92	F 48/64"	250		24	4	0	598	---

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

W.L. Irwin District Petroleum Engineer
Printed name and title

Date

10/26/92

505/326-7600

Telephone No.

Submit 2 copies to Appropriate
District Office.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County											
UNION OIL COMPANY OF CALIFORNIA		BLANCO MESAVERDE/BASIN DAKOTA		RIO ARriba											
Address		TYPE OF TEST - (X)		Completion ☒ Scheduled ☐ Special ☐											
3300 N. BUTLER, SUITE 200, FARMINGTON, NM 87401															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBQ. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OL BBLs.	GAS M.C.F.
RINCON UNIT	167M	C	13	27N	7W	8/21/92	F 18/64"	680		24	17	55	-0-	137	--
Blanco Mesaverde						8/11/92	F 48/64"	1385		24	4	55	4	524	131,000
Basin Dakota															

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

W.L. Irwin District Petroleum Engineer
Printed name and title

10/1/92

OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County									
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba									
Address		TYPE OF TEST - (X)		Completion ☒ Special ☐									
3300 N. Butler, Suite 200, Farmington, NM 87401		SCHEDULED		Special									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL.
		U	S	T						R	WATER BBL.	GRAV. OIL	
Rincon Unit	170M	I	20	27N	6W								
Blanco Mesaverde						10/31/92	F	15/64"	255	24	-0-	-0-	179
Basin Dakota						11/08/92	F	20/64"	505	24	3	-0-	480

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301. Rule 1116 & appropriate model rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature _____

Glen O. Papp
Field Superintendent

Printed name and title

August 11, 1993

Date _____

(505) 326-7600

Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator	UNION OIL COMPANY OF CALIFORNIA		Pool		BLANCO MESA VERDE / BASIN DAKOTA		County		RIO ARRIBA				
Address	3300 N. BUTLER, SUITE 200, FARMINGTON NM 87401		TYPE OF TEST - (X)		Scheduled ☐		Completion ☒		Special ☐				
LEASE NAME	WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	TSG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST	GAS - OIL RATIO			
RINCON UNIT BLANCO MESAVERDE BASIN DAKOTA	175M	U	S	T	R	249 250		24 24	WATER BBL'S.	GRAV. OIL	OIL BBL'S.	GAS M.C.F.	GAS - OIL RATIO CU.FT/88L.
		F	20	27N	6W				7	55	2	628	314,000
									18		0	408	---

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301. Rule 1116 & appropriate pool rules)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

W.L. Irwin District Petroleum Engineer
Printed name and title

10/20/92 Date
(505) 326-7600 Telephone No.

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

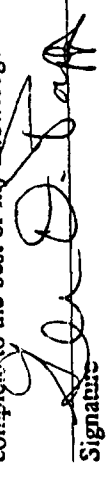
Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
UNION OIL COMPANY OF CALIFORNIA		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion ☒ Special ☐										
3300 N. Butler, Suite 200, Farmington, NM 87401														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	180M	D	21	27N	6W	9/01/92	F 48/64"	230		24	10	-0-	495	--
Blanco Mesaverde						3/31/93	F 16/64"	295		24	-0-		294	--
Basin Dakota														

I hereby certify that the above information is true and complete to the best of my knowledge and belief.


Signature

Glen O. Papp
Printed name and title

Field Superintendent

August 17, 1993
Date

(505) 326-7600
Telephone No.

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.
Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301 Rule 1116 & amendments and rules)

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator		Pool		County										
Union Oil Company of California		Blanco Mesaverde/Basin Dakota		Rio Arriba										
Address		TYPE OF TEST - (X)		Completion		Special								
3300 N. Butler, Suite 200, Farmington, NM 87401		Scheduled ☐		X		☐								
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Rincon Unit	184M	P	15	27N	7W	12/28/92	F 14/64"	165		24	-0-	-0-	16	---
Blanco Mesaverde						12/16/92	F 17/64"	300		24	4	1	347	347,000
Basin Dakota														

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Glen O. Papp Field Superintendent

Printed name and title

July 28, 1993

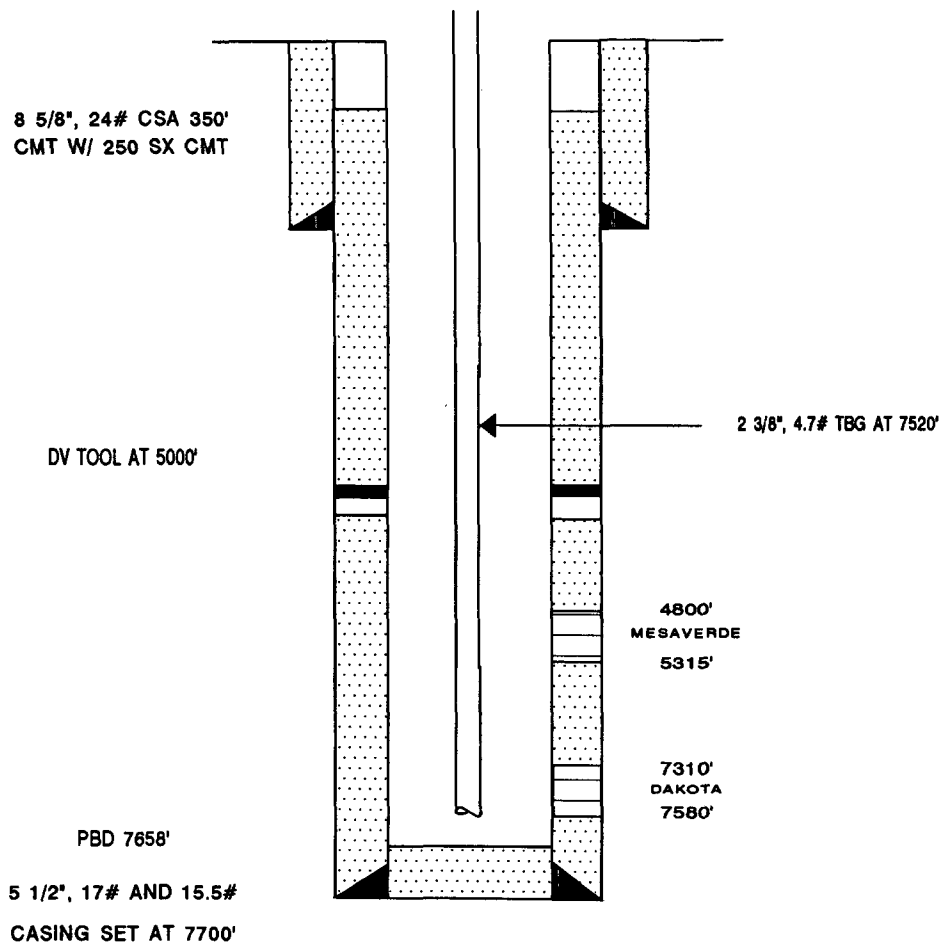
Date

(505) 326-7600

Telephone No.

RINCON UNIT #138E: PROPOSED

790' FSL, 790' FEL
Sec. 25, T27N, R7W



RINCON UNIT #133E: PROPOSED

790' FNL, 445' FWL
Sec. 14, T27N, R7W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

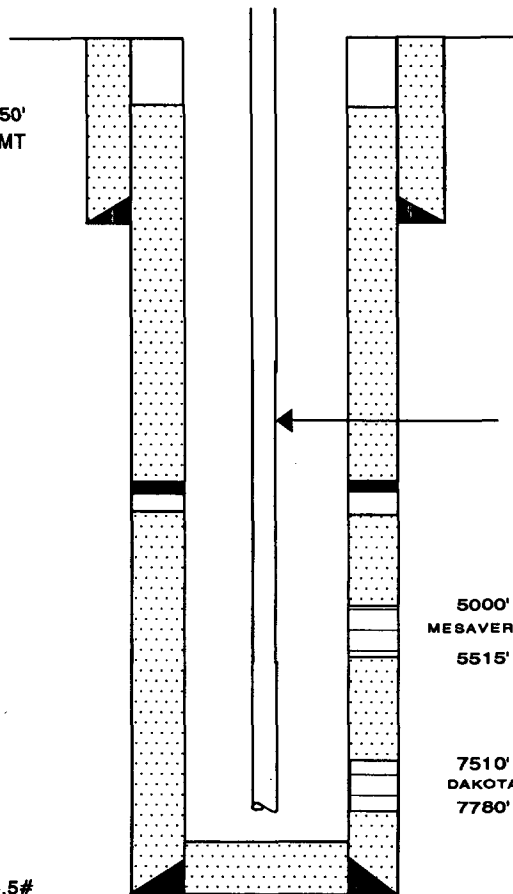
PBD 7858'

5 1/2", 17# AND 15.5#
CASING SET AT 7900'

2 3/8", 4.7# TBG AT 7720'

5000'
MESAVERDE
5515'

7510'
DAKOTA
7780'



RINCON UNIT #128M: PROPOSED

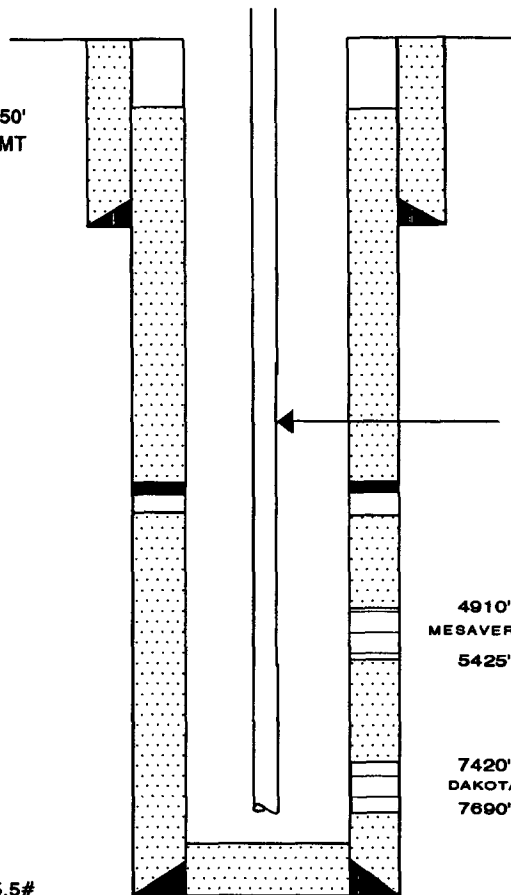
1175' FSL, 1185' FEL
Sec. 28, T27N, R6W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

PBD 7768'

5 1/2", 17# AND 15.5#
CASING SET AT 7810'



2 3/8", 4.7# TBG AT 7630'

4910'
MESAVERDE
5425'

7420'
DAKOTA
7690'

RINCON UNIT #139E: PROPOSED

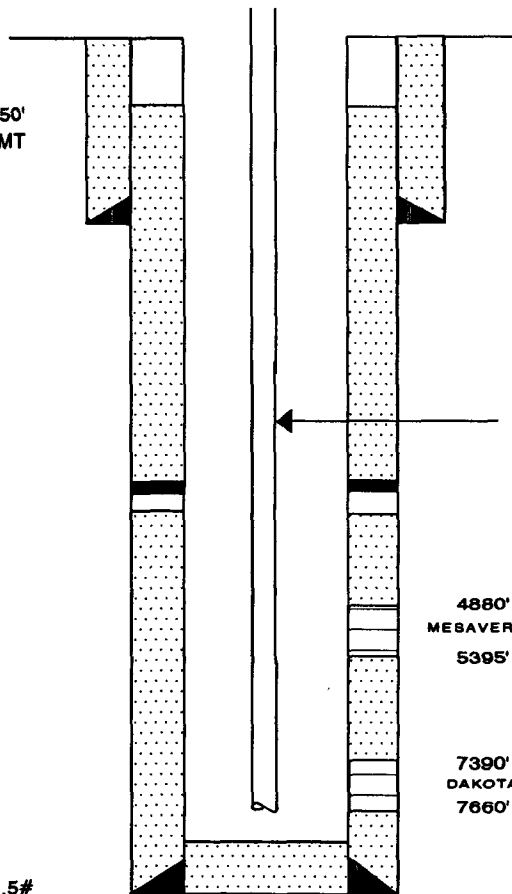
1980' FNL, 1980' FWL
Sec. 25, T27N, R7W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

PBD 7738'

5 1/2", 17# AND 15.5#
CASING SET AT 7780'



2 3/8", 4.7# TBG AT 7600'

4880'
MESAVERDE
5395'

7390'
DAKOTA
7660'

RINCON UNIT #178E: PROPOSED

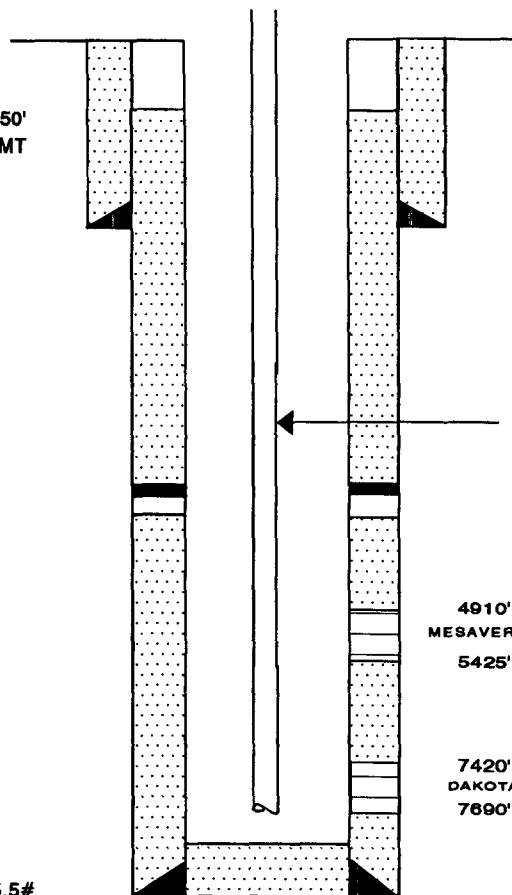
1500' FSL, 1290' FEL
Sec. 23, T27N, R7W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

PBD 7768'

5 1/2", 17# AND 15.5#
CASING SET AT 7810'



2 3/8", 4.7# TBG AT 7630'

4910'
MESAVERDE
5425'

7420'
DAKOTA
7690'

RINCON UNIT #131E: PROPOSED

1145' FNL, 1525' FWL
Sec. 36, T27N, R7W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

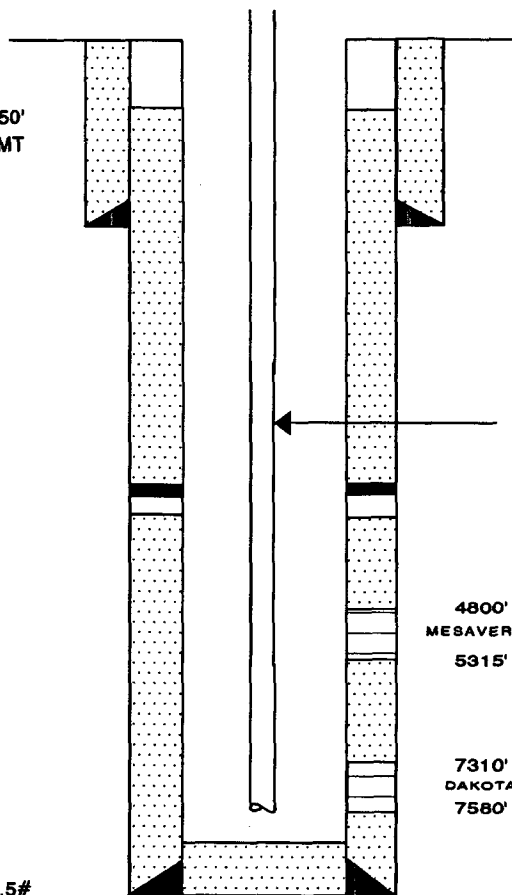
PBD 7658'

5 1/2", 17# AND 15.5#
CASING SET AT 7700'

2 3/8", 4.7# TBG AT 7520'

4800'
MESAVERDE
5315'

7310'
DAKOTA
7580'



RINCON UNIT #185E: PROPOSED

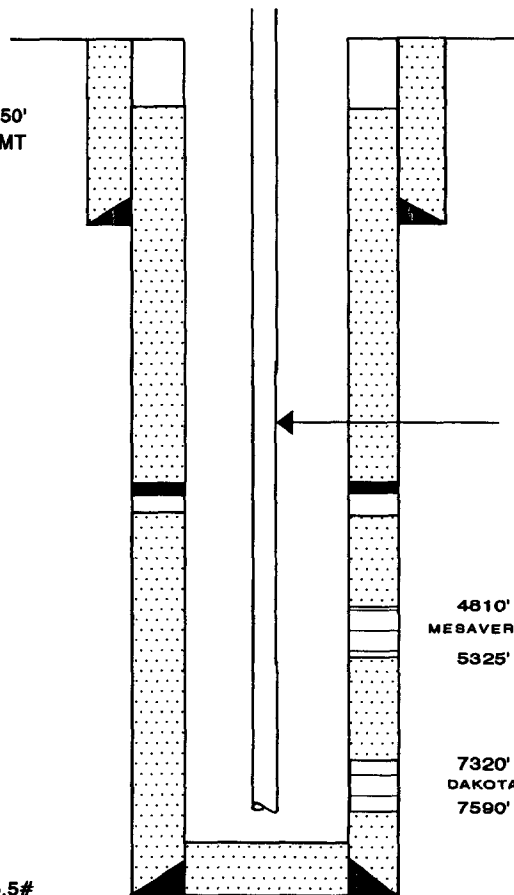
2100' FSL, 1610' FEL
Sec. 22, T27N, R7W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

PBD 7668'

5 1/2", 17# AND 15.5#
CASING SET AT 7710'



2 3/8", 4.7# TBG AT 7530'

4810'
MESAVERDE
5325'

7320'
DAKOTA
7590'

RINCON UNIT #149E: PROPOSED

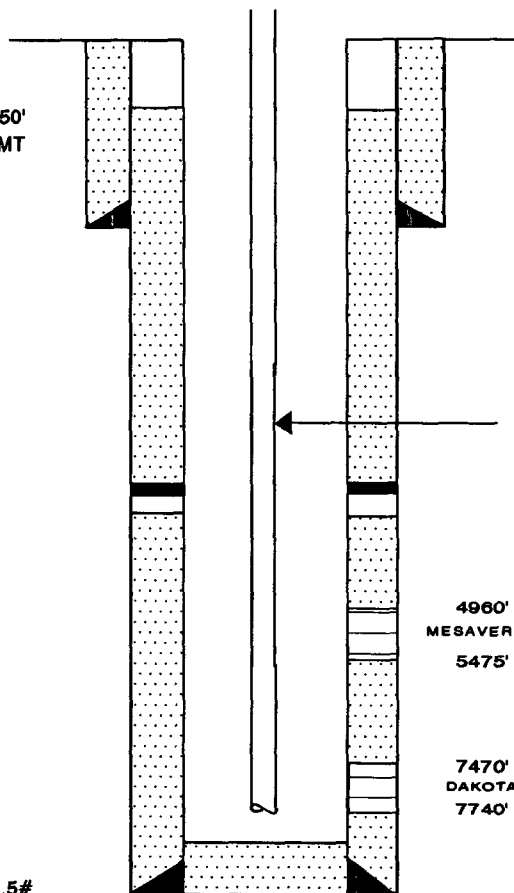
1900' FNL, 1365' FWL
Sec. 30, T27N, R6W

8 5/8", 24# CSA 350'
CMT W/ 250 SX CMT

DV TOOL AT 5000'

PBD 7818'

5 1/2", 17# AND 15.5#
CASING SET AT 7860'



2 3/8", 4.7# TBG AT 7680'

4960'
MESAVERDE
5475'

7470'
DAKOTA
7740'

BOTTOMHOLE PRESSURE DATA

WELL	MESAVERDE BHP	DAKOTA BHP
Rincon Unit No. 1E	1156 psi	1690 psi
Rincon Unit No. 125M	789 psi	1548 psi
Rincon Unit No. 126	660 psi	850 psi
Rincon Unit No. 126M	921 psi	1607 psi
Rincon Unit No. 127	512 psi	580 psi
Rincon Unit No. 127M	716 psi	1280 psi
Rincon Unit No. 128	801 psi	781 psi
Rincon Unit No. 129	806 psi	836 psi
Rincon Unit No. 129M	1053 psi	935 psi
Rincon Unit No. 130	586 psi	622 psi
Rincon Unit No. 135	481 psi	736 psi
Rincon Unit No. 136E	1139 psi	2199 psi
Rincon Unit No. 137	400 psi	686 psi
Rincon Unit No. 149	471 psi	521 psi
Rincon Unit No. 151M	1228 psi	1862 psi
Rincon Unit No. 158M	1231 psi	766 psi
Rincon Unit No. 159M	603 psi	583 psi
Rincon Unit No. 167M	1007 psi	1909 psi
Rincon Unit No. 170M	940 psi	1752 psi
Rincon Unit No. 175M	735 psi	1108 psi
Rincon Unit No. 180M	585 psi	788 psi
Rincon Unit No. 184M	<u>1753 psi</u>	<u>1708 psi</u>
AVERAGE	<u>844 psi</u>	<u>1152 psi</u>

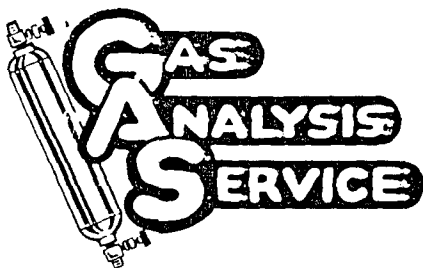


WELL ANALYSIS COMPARISON

LEASE: RINCON #1E

SEPTEMBER 30, 199

DATE:	9/18/92	9/25/92
NO.:	20022	20023
	DAKOTA MESAVERDE	
	MOLE %	MOLE %
NITROGEN	0.206	0.413
CO2	1.186	1.104
METHANE	90.732	87.977
ETHANE	5.709	6.411
PROPANE	1.283	2.466
I-BUTANE	0.209	0.439
N-BUTANE	0.323	0.602
I-PENTANE	0.124	0.210
N-PENTANE	0.093	0.156
HEXANE+	0.135	0.222
BTU'S	1087.8	1129.7
GPM	2.1889	2.9582
SPEC GRAV	0.6231	0.6509



WELL ANALYSIS COMPARISON

LEASE: RINCON 125M

DECEMBER 21, 1992

DATE: 12/10/92 12/17/92

NO.: 20041 20045
MESAVERDE DAKOTA

	MOLE %	MOLE %
	-----	-----
NITROGEN	0.436	0.241
CO2	1.044	1.235
METHANE	82.256	87.142
ETHANE	9.097	6.414
PROPANE	4.333	2.354
I-BUTANE	0.768	0.588
N-BUTANE	1.073	0.757
I-PENTANE	0.381	0.442
N-PENTANE	0.265	0.275
HEXANE+	0.347	0.552
BTU'S	1211.2	1159.8
-----	-----	-----
GPM	4.6039	3.2976
-----	-----	-----
SPEC GRAV	0.7023	0.6706
-----	-----	-----

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 1/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100 UNION OIL CO. OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 74981 - RINCON UNIT #126 DK
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 12/04/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 12/03/92 H2S GRAINS 0
EFFECTIVE DATE 1/01/93 LOCATION F - FARMINGTON
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.39	.000
H2S	.00	.000
N2	.24	.000
METHANE	89.18	.000
ETHANE	5.84	1.562
PROPANE	1.78	.491
ISO-BUTANE	.43	.141
NORM-BUTANE	.46	.145
ISO-PENTANE	.24	.088
NORM-PENTANE	.13	.047
HEXANE PLUS	.31	.135
	100.00	2.609

SPECIFIC GRAVITY .644

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1114

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100 UNION OIL COMPANY OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TX 79702-0671

METER NUMBER 72580 - RINCON UNIT NP #126 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 4/29/93 TYPE CODE 2 - ACTUAL
SAMPLE DATE 4/20/93 H2S GRAINS 0
EFFECTIVE DATE 5/01/93 LOCATION D - DANIELS FM
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.34	.000
H2S	.00	.000
N2	.22	.000
METHANE	89.78	.000
ETHANE	5.41	1.447
PROPANE	1.59	.438
ISO-BUTANE	.43	.141
NORM-BUTANE	.45	.142
ISO-PENTANE	.26	.095
NORM-PENTANE	.15	.054
HEXANE PLUS	.37	.161
	100.00	2.478

SPECIFIC GRAVITY .642

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1112

RATIO OF SPECIFIC HEATS 1.298

NO TEST SECURED FOR H2S CONTENT



WELL ANALYSIS COMPARISON

LEASE: RINCON 126M

NOVEMBER 22, 1992

DATE: 11/10/92 11/18/92

NO.: 20034 20035
MESAVERDE DAKOTA

	MOLE %	MOLE %
	-----	-----
NITROGEN	0.360	0.222
CO2	0.932	1.205
METHANE	84.567	91.573
ETHANE	8.160	4.621
PROPANE	3.830	1.222
I-BUTANE	0.633	0.287
N-BUTANE	0.897	0.306
I-PENTANE	0.260	0.166
N-PENTANE	0.170	0.100
HEXANE+	0.191	0.298
BTU'S	1178.1	1087.8
-----	-----	-----
GPM	3.9682	1.9902
-----	-----	-----
SPEC GRAV	0.6785	0.6237
-----	-----	-----

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE:(915) 541-5267

DATE 12/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE

94100 UNION OIL CO. OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 72596 - RINCON UNIT #127 DK
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 10/15/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 10/13/92 H2S GRAINS 0
EFFECTIVE DATE 11/01/92 LOCATION F - FARMINGTON
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.35	.000
H2S	.00	.000
N2	.27	.000
METHANE	85.97	.000
ETHANE	7.76	2.076
PROPANE	2.71	.747
ISO-BUTANE	.59	.193
NORM-BUTANE	.68	.214
ISO-PENTANE	.30	.110
NORM-PENTANE	.16	.058
HEXANE PLUS	.21	.092
	100.00	3.490

SPECIFIC GRAVITY .667

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1150

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 871
MIDLAND, TEXAS 79702

METER NUMBER 72595 - RINCON UNIT #127 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 5/13/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 5/12/92 H2S GRAINS 0
EFFECTIVE DATE 6/01/92 LOCATION F - FARMINGTON
EFFECTIVE FOR 3 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.02	.000
H2S	.00	.000
N2	.39	.000
METHANE	81.78	.000
ETHANE	10.52	2.814
PROPANE	4.22	1.163
ISO-BUTANE	.60	.196
NORM-BUTANE	.84	.265
ISO-PENTANE	.28	.102
NORM-PENTANE	.19	.068
HEXANE PLUS	.16	.070
	100.00	4.679

SPECIFIC GRAVITY .694
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1199
RATIO OF SPECIFIC HEATS .000
NO TEST SECURED FOR H2S CONTENT



FARMINGTON AVENUE - FA

RINCON, NM 87401

(505) 325-6622

ANALYSIS NO. UN020036

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #127M

LINE PRESSURE: 110 PSIG

LOCATION:

SAMPLE TEMP.: 60 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 11/25/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN AT TEST UNIT

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.364	0.0000
CO2	1.044	0.0000
METHANE	89.523	0.0000
ETHANE	6.141	1.6427
PROPANE	1.790	0.4933
I-BUTANE	0.312	0.1021
N-BUTANE	0.377	0.1189
I-PENTANE	0.133	0.0487
N-PENTANE	0.084	0.0304
HEXANE+	0.232	0.1012
TOTAL	100.000	2.5373
COMPRESSIBILITY FACTOR	(1/Z)	1.0026
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1106.3
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1087.1
REAL SPECIFIC GRAVITY		0.6343

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 96 PSIG

DATE RUN: 11/30/92

ANALYSIS RUN BY: CHELLE DURBIN



(505) 325-6622

ANALYSIS NO. UN020038

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #127M

LINE PRESSURE: 249 PSIG

LOCATION:

SAMPLE TEMP.: 64 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 12/3/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN AT TEST UNIT

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.200	0.0000
CO2	1.256	0.0000
METHANE	87.116	0.0000
ETHANE	7.436	1.9891
PROPANE	2.165	0.5967
I-BUTANE	0.411	0.1344
N-BUTANE	0.559	0.1763
I-PENTANE	0.256	0.0937
N-PENTANE	0.173	0.0627
HEXANE+	0.428	0.1867
TOTAL	100.000	3.2395
COMPRESSIBILITY FACTOR (1/Z)		1.0029
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1142.6
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1122.7
REAL SPECIFIC GRAVITY		0.6593

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 254 PSIG

DATE RUN: 12/4/92

ANALYSIS RUN BY: CHELLE DURBIN

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79878
PHONE: (915) 541-5287

CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 7/08/92

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 871
MIDLAND, TEXAS 79702

METER NUMBER 72813 - RINCON UNIT #128 DK
OPERATOR 9185 - UNION OIL CO OF CALIF

ANALYSIS DATE	5/27/92	TYPE CODE	2 - ACTUAL
SAMPLE DATE	5/26/92	H2S GRAINS	0
EFFECTIVE DATE	7/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	3 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.24	.000
H2S	.00	.000
N2	.53	.000
METHANE	85.02	.000
ETHANE	7.73	2.068
PROPANE	3.05	.841
ISO-BUTANE	.69	.226
NORM-BUTANE	.86	.271
ISO-PENTANE	.34	.124
NORM-PENTANE	.25	.091
HEXANE PLUS	.29	.127
	100.00	3.748

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 871
MIDLAND, TEXAS 79702

METER NUMBER 72612 - RINCON UNIT NP #128 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	5/28/92	TYPE CODE	2 - ACTUAL
SAMPLE DATE	5/28/92	H2S GRAINS	0
EFFECTIVE DATE	6/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.98	.000
H2S	.00	.000
N2	.51	.000
METHANE	84.81	.000
ETHANE	8.39	2.244
PROPANE	3.00	.827
ISO-BUTANE	.54	.177
NORM-BUTANE	.83	.262
ISO-PENTANE	.37	.135
NORM-PENTANE	.24	.087
HEXANE PLUS	<u>.33</u>	<u>.144</u>
	100.00	3.876

SPECIFIC GRAVITY .678
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1173
RATIO OF SPECIFIC HEATS 1.291
NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 10/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE

94100 UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 72592 - RINCON UNIT #129 DK
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 5/03/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 4/30/92 H2S GRAINS 0
EFFECTIVE DATE 9/01/92 LOCATION F - FARMINGTON
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.62	.000
H2S	.00	.000
N2	1.85	.000
METHANE	85.92	.000
ETHANE	6.49	1.736
PROPANE	3.09	.852
ISO-BUTANE	.47	.154
NORM-BUTANE	.78	.246
ISO-PENTANE	.22	.080
NORM-PENTANE	.17	.062
HEXANE PLUS	.39	.170
	100.00	3.300

SPECIFIC GRAVITY .667

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1143

RATIO OF SPECIFIC HEATS 1.295

NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1482
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 4/08/93

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TX 79702-0671

METER NUMBER 72591 - RINCON UNIT #129 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	3/12/93	TYPE CODE	2 - ACTUAL
SAMPLE DATE	3/10/93	H2S GRAINS	0
EFFECTIVE DATE	4/01/93	LOCATION	F - FARM BECK
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.96	.000
H2S	.00	.000
N2	.59	.000
METHANE	82.80	.000
ETHANE	7.89	2.111
PROPANE	4.31	1.188
ISO-BUTANE	.87	.285
NORM-BUTANE	1.25	.394
ISO-PENTANE	.47	.172
NORM-PENTANE	.34	.123
HEXANE PLUS	<u>.52</u>	<u>.227</u>
	100.00	4.500

SPECIFIC GRAVITY .708

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1219

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT



(505) 325-6622

ANALYSIS NO. UN020024

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 129M

LINE PRESSURE: 249 PSIG

LOCATION:

SAMPLE TEMP.: 68 DEG.F

COUNTY: RINCON/RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 10/10/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.211	0.0000
CO2	1.310	0.0000
METHANE	88.063	0.0000
ETHANE	7.576	2.0266
PROPANE	1.721	0.4743
I-BUTANE	0.328	0.1073
N-BUTANE	0.366	0.1154
I-PENTANE	0.166	0.0607
N-PENTANE	0.103	0.0373
HEXANE+	0.156	0.0680
TOTAL	100.000	2.8897
COMPRESSIBILITY FACTOR (1/Z)		1.0027
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1113.7
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1094.3
REAL SPECIFIC GRAVITY		0.6417

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 232 PSIG

DATE RUN: 10/12/92

ANALYSIS RUN BY: CHELLE DURBIN



(505) 325-6622

ANALYSIS NO. UN020025

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 129M

LINE PRESSURE: 50 PSIG

LOCATION:

SAMPLE TEMP.: 72 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 10/16/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN AT TEST UNIT.

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.520	0.0000
CO2	0.588	0.0000
METHANE	78.797	0.0000
ETHANE	11.284	3.0185
PROPANE	5.585	1.5392
I-BUTANE	0.838	0.2741
N-BUTANE	1.364	0.4301
I-PENTANE	0.423	0.1548
N-PENTANE	0.295	0.1068
HEXANE+	0.306	0.1335
TOTAL	100.000	5.6570
COMPRESSIBILITY FACTOR	(1/Z)	1.0036
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1259.6
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1237.7
REAL SPECIFIC GRAVITY		0.7268

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 48 PSIG

DATE RUN: 10/19/92

ANALYSIS RUN BY: CHELLE DURBIN

EL PASO NATURAL GAS COMPANY
 VOLUME ACCOUNTING DEPARTMENT
 MEASUREMENT DIVISION
 POST OFFICE BOX 1492
 EL PASO, TEXAS 79978
 PHONE: (915) 541-5267

CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 7/08/92

MAILEE
 94100

UNION OIL CO. OF CALIFORNIA
 ATTN: MIDLAND PRODUCTION DEPT.
 P.O. BOX 671
 MIDLAND, TEXAS 79702

METER NUMBER 72574 - RINCON UNIT #130 DK
 OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 6/14/92 TYPE CODE 2 - ACTUAL
 SAMPLE DATE 6/12/92 H2S GRAINS 0
 EFFECTIVE DATE 7/01/92 LOCATION F - FARMINGTON
 EFFECTIVE FOR 3 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.31	.000
H2S	.00	.000
N2	.45	.000
METHANE	85.88	.000
ETHANE	7.42	1.985
PROPANE	2.95	.813
ISO-BUTANE	.54	.177
NORM-BUTANE	.77	.243
ISO-PENTANE	.30	.110
NORM-PENTANE	.19	.069
HEXANE PLUS	<u>.19</u>	<u>.083</u>
	100.00	3.480

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE

94100 UNION OIL COMPANY OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TX 79702-0671

METER NUMBER 72573 - RINCON UNIT NP #130 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 4/07/93 TYPE CODE 2 - ACTUAL
SAMPLE DATE 4/01/93 H2S GRAINS 0
EFFECTIVE DATE 5/01/93 LOCATION D - DANIELS FM
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.32	.000
H2S	.00	.000
N2	.42	.000
METHANE	84.28	.000
ETHANE	8.54	2.284
PROPANE	3.02	.832
ISO-BUTANE	.67	.219
NORM-BUTANE	.78	.246
ISO-PENTANE	.35	.128
NORM-PENTANE	.20	.072
HEXANE PLUS	.42	.183
	100.00	3.964

SPECIFIC GRAVITY .684

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1175

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5287

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 871
MIDLAND, TEXAS 79702

METER NUMBER 72594 - RINCON UNIT #135 DK
OPERATOR 9185 - UNION OIL CO OF CALIF

ANALYSIS DATE	5/02/92	TYPE CODE	2 - ACTUAL
SAMPLE DATE	4/30/92	H2S GRAINS	0
EFFECTIVE DATE	6/01/92	LOCATION	-
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.34	.000
H2S	.00	.000
N2	.29	.000
METHANE	87.71	.000
ETHANE	6.83	1.827
PROPANE	2.01	.554
ISO-BUTANE	.49	.160
NORM-BUTANE	.57	.180
ISO-PENTANE	.28	.102
NORM-PENTANE	.17	.062
HEXANE PLUS	<u>.31</u>	<u>.135</u>
	100.00	3.020

SPECIFIC GRAVITY .655
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1132
RATIO OF SPECIFIC HEATS .000
NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/93 CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE

94100 UNION OIL COMPANY OF CALIFORNIA
ATTN: SHARON L. MILLER
P.O. BOX 671
MIDLAND, TX 79702-0671

METER NUMBER 72593 - RINCON UNIT #135 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 4/26/93 TYPE CODE 2 - ACTUAL
SAMPLE DATE 4/22/93 H2S GRAINS 0
EFFECTIVE DATE 5/01/93 LOCATION D - DANIELS FM
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.10	.000
H2S	.00	.000
N2	.43	.000
METHANE	86.61	.000
ETHANE	6.61	1.768
PROPANE	3.04	.838
ISO-BUTANE	.61	.200
NORM-BUTANE	.72	.227
ISO-PENTANE	.30	.110
NORM-PENTANE	.19	.069
HEXANE PLUS	.39	.170
	100.00	3.382

SPECIFIC GRAVITY .869

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1157

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT



1115 FARMINGTON AVENUE - TNGTON, NM 87401

(505) 325-6622

ANALYSIS NO. UN020042

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #136E

LINE PRESSURE: PSIG

LOCATION:

SAMPLE TEMP.: 70 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 12/11/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS:

ANALYSIS

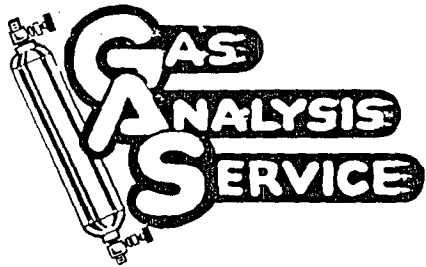
COMPONENT	MOLE%	GPM
NITROGEN	0.219	0.0000
CO2	1.072	0.0000
METHANE	84.804	0.0000
ETHANE	8.487	2.2703
PROPANE	3.185	0.8778
I-BUTANE	0.484	0.1583
N-BUTANE	0.824	0.2598
I-PENTANE	0.307	0.1123
N-PENTANE	0.240	0.0869
HEXANE+	0.378	0.1649
TOTAL	100.000	3.9303
COMPRESSIBILITY FACTOR	(1/Z)	1.0031
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1177.1
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1156.6
REAL SPECIFIC GRAVITY		0.6786

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 236 PSIG

DATE RUN: 12/12/92

ANALYSIS RUN BY: CHELLE DURBIN



15 FARMINGTON AVENUE - ALBANY, NM 87401

(505) 325-6622

ANALYSIS NO. UNO20047

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 136E

LINE PRESSURE: 250 PSIG

LOCATION:

SAMPLE TEMP.: 60 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 12/18/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN AT TEST UNIT

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.183	0.0000
CO2	1.127	0.0000
METHANE	86.791	0.0000
ETHANE	7.415	1.9835
PROPANE	2.564	0.7066
I-BUTANE	0.413	0.1351
N-BUTANE	0.682	0.2150
I-PENTANE	0.264	0.0966
N-PENTANE	0.205	0.0743
HEXANE+	0.356	0.1553
TOTAL	100.000	3.3664
COMPRESSIBILITY FACTOR	(1/Z)	1.0029
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1151.0
BTU/CU.FT. (WET), CORRECTED FOR (1/Z)		1131.0
REAL SPECIFIC GRAVITY		0.6624

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 238 PSIG

DATE RUN: 12/21/92

ANALYSIS RUN BY: CHELIE CURRY

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5287

CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 7/08/92

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 871
MIDLAND, TEXAS 79702

METER NUMBER 72588 - RINCON UNIT #137 DK
OPERATOR 9185 - UNION OIL CO OF CALIF

ANALYSIS DATE 6/02/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 5/27/92 H2S GRAINS 0
EFFECTIVE DATE 7/01/92 LOCATION F - FARMINGTON
EFFECTIVE FOR 3 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.22	.000
H2S	.00	.000
N2	.68	.000
METHANE	85.31	.000
ETHANE	8.77	1.811
PROPANE	4.24	1.169
ISO-BUTANE	.88	.288
NORM-BUTANE	1.08	.341
ISO-PENTANE	.35	.128
NORM-PENTANE	.24	.087
HEXANE PLUS	.23	.100
	100.00	3.924

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5287

CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 7/08/92

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 72585 - RINCON UNIT NP #137 MV
OPERATOR 8165 - UNION OIL CO OF CALIF

ANALYSIS DATE 8/02/92
SAMPLE DATE 5/29/92
EFFECTIVE DATE 7/01/92
EFFECTIVE FOR 3 MONTHS
TYPE CODE 2 - ACTUAL
H2S GRAINS 0
LOCATION F - FARMINGTON

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.78	.000
H2S	.00	.000
N2	.38	.000
METHANE	81.34	.000
ETHANE	9.99	2.672
PROPANE	4.41	1.215
ISO-BUTANE	.89	.226
NORM-BUTANE	1.25	.394
~ ISO-PENTANE	.49	.179
NORM-PENTANE	.40	.145
HEXANE PLUS	.27	.118
	100.00	4.949

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5287

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 74937 - RINCON UNIT #149 DK
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	99/99/99	TYPE CODE	2 - ACTUAL
SAMPLE DATE	5/05/92	H2S GRAINS	0
EFFECTIVE DATE	6/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.26	.000
H2S	.00	.000
N2	.59	.000
METHANE	86.86	.000
ETHANE	8.86	1.835
PROPANE	2.30	.634
ISO-BUTANE	.45	.147
NORM-BUTANE	.64	.202
ISO-PENTANE	.27	.099
NORM-PENTANE	.19	.069
HEXANE PLUS	.58	.253
	100.00	3.239

SPECIFIC GRAVITY .666
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1146
RATIO OF SPECIFIC HEATS .000
NO TEST SECURED FOR H2S CONTENT

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1492
EL PASO, TEXAS 79978
PHONE: (915) 541-5267

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

UNION OIL CO. OF CALIFORNIA
ATTN: MIDLAND PRODUCTION DEPT.
P.O. BOX 671
MIDLAND, TEXAS 79702

METER NUMBER 72535 - RINCON UNIT #149 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	0/00/00	TYPE CODE	2 - ACTUAL
SAMPLE DATE	5/05/92	H2S GRAINS	0
EFFECTIVE DATE	6/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	.84	.000
H2S	.00	.000
N2	.83	.000
METHANE	76.46	.000
ETHANE	12.27	3.282
PROPANE	5.81	1.601
ISO-BUTANE	.89	.291
NORM-BUTANE	1.37	.432
ISO-PENTANE	.46	.168
NORM-PENTANE	.35	.127
HEXANE PLUS	<u>.72</u>	<u>.314</u>
	100.00	6.215

SPECIFIC GRAVITY .752
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1286
RATIO OF SPECIFIC HEATS 1.280
NO TEST SECURED FOR H2S CONTENT



5 FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. UNO20028

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 151M

LINE PRESSURE: 250 PSIG

LOCATION:

SAMPLE TEMP.: 70 DEG.F

COUNTY: RIO ARRIBA

WELL FLOWING: YES

FORMATION: MESA VERDE

DATE SAMPLED: 10/92

SMPL SRC:

SAMPLED BY: TSB-KIVA

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.290	0.0000
CO2	0.904	0.0000
METHANE	85.350	0.0000
ETHANE	8.071	2.1590
PROPANE	3.234	0.8913
I-BUTANE	0.542	0.1773
N-BUTANE	0.787	0.2481
I-PENTANE	0.297	0.1087
N-PENTANE	0.206	0.0746
HEXANE+	0.319	0.1391
TOTAL	100.000	3.7981
COMPRESSIBILITY FACTOR	(1/Z)	1.0030
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1172.2
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1151.8
REAL SPECIFIC GRAVITY		0.6735

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 237 PSIG

DATE RUN: 10/26/92

ANALYSIS RUN BY: CHELLE DURBIN



(505) 325-6622

ANALYSIS NO. UNO20031

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #151M

LINE PRESSURE: 255 PSIG

LOCATION:

SAMPLE TEMP.: 68 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 11/01/92

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN @ TEST UNIT

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.160	0.0000
CO2	1.144	0.0000
METHANE	89.255	0.0000
ETHANE	5.918	1.5831
PROPANE	1.913	0.5272
I-BUTANE	0.335	0.1096
N-BUTANE	0.514	0.1621
I-PENTANE	0.212	0.0776
N-PENTANE	0.154	0.0558
HEXANE+	0.395	0.1723
TOTAL	100.000	2.6876
COMPRESSIBILITY FACTOR (1/Z)		1.0027
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1122.5
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1103.0
REAL SPECIFIC GRAVITY		0.6442

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 258 PSIG

DATE RUN: 11/02/92

ANALYSIS RUN BY: CHELLE DURBIN



(505) 325-662

ANALYSIS NO. UN02002

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 158M

LINE PRESSURE: 250

LOCATION:

SAMPLE TEMP.: 72

COUNTY:

WELL FLOWING: YES

FORMATION: MESA VERDE

DATE SAMPLED: 10/92

SMPL SRC:

SAMPLED BY: TSB-KIVA

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.259	0.0000
CO2	0.976	0.0000
METHANE	86.093	0.0000
ETHANE	7.491	2.0038
PROPANE	2.954	0.8141
I-BUTANE	0.542	0.1773
N-BUTANE	0.745	0.2349
I-PENTANE	0.321	0.1175
N-PENTANE	0.204	0.0739
HEXANE+	0.415	0.1810
TOTAL	100.000	3.6025
COMPRESSIBILITY FACTOR	(1/Z)	1.0030
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1166.8
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1146.5
REAL SPECIFIC GRAVITY		0.6709

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 29 PSIG

DATE RUN: 10/26/92

ANALYSIS RUN BY: CHELLE DURBIN



WELL ANALYSIS COMPARISON

LEASE: RINCON 159M

SEPTEMBER 15, 1992

DATE: 9/5/92 9/13/92
NO.: 20018 20020
DAKOTA MESAVERDE

	MOLE %	MOLE %
	-----	-----
NITROGEN	0.269	0.306
CO2	1.051	1.055
METHANE	87.444	86.667
ETHANE	7.204	7.354
PROPANE	2.410	2.706
I-BUTANE	0.433	0.493
N-BUTANE	0.570	0.653
I-PENTANE	0.221	0.254
N-PENTANE	0.142	0.166
HEXANE+	0.256	0.346
BTU'S	1137.4	1151.4
-----	-----	-----
GPM	3.1566	3.3841
-----	-----	-----
SPEC GRAV	0.6534	0.6628
-----	-----	-----



FARMINGTON AVENUE - F T CON, NM 87401

(505) 325-6622

ANALYSIS NO. UN020016

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 167M

LINE PRESSURE: 60 PSIG

LOCATION:

SAMPLE TEMP.: 89 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 8/20/92

SMPL SRC:

SAMPLED BY: KIVA MEASURING

REMARKS: 7 DAY FLOW TEST

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.369	0.0000
CO2	0.578	0.0000
METHANE	79.732	0.0000
ETHANE	11.164	2.9864
PROPANE	4.953	1.3650
I-BUTANE	0.764	0.2499
N-BUTANE	1.203	0.3793
I-PENTANE	0.408	0.1493
N-PENTANE	0.292	0.1058
HEXANE+	0.537	0.2342
TOTAL	100.000	5.4699
COMPRESSIBILITY FACTOR (1/Z)		1.0036
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1254.5
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1232.7
REAL SPECIFIC GRAVITY		0.7218

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 49 PSIG

DATE RUN: 8/25/92

ANALYSIS RUN BY: CHELLE DURBIN



ANALYSIS NO. UN020012

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 167M

LINE PRESSURE: 280 PSIG

LOCATION:

SAMPLE TEMP.: 61 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING:

FORMATION: DAKOTA

DATE SAMPLED: 8/11/92

SMPL SRC: TEST UNIT

SAMPLED BY: KIVA MEASURING

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.141	0.0000
CO2	1.177	0.0000
METHANE	89.838	0.0000
ETHANE	5.722	1.5306
PROPANE	1.708	0.4707
I-BUTANE	0.319	0.1043
N-BUTANE	0.459	0.1447
I-PENTANE	0.196	0.0717
N-PENTANE	0.137	0.0496
HEXANE+	0.303	0.1322
TOTAL	100.000	2.5039
COMPRESSIBILITY FACTOR	(1/Z)	1.0027
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1111.3
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1092.0
REAL SPECIFIC GRAVITY		0.6374

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 254 PSIG

DATE RUN: 8/17/92

ANALYSIS RUN BY: CHELLE DURBIN



FARMINGTON AVENUE - F T CON, NM 87401

(505) 325-6622

ANALYSIS NO. UN020016

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 167M

LINE PRESSURE: 60 PSIG

LOCATION:

SAMPLE TEMP.: 89 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 8/20/92

SMPL SRC:

SAMPLED BY: KIVA MEASURING

REMARKS: 7 DAY FLOW TEST

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.369	0.0000
CO2	0.578	0.0000
METHANE	79.732	0.0000
ETHANE	11.164	2.9864
PROPANE	4.953	1.3650
I-BUTANE	0.764	0.2499
N-BUTANE	1.203	0.3793
I-PENTANE	0.408	0.1493
N-PENTANE	0.292	0.1058
HEXANE+	0.537	0.2342
TOTAL	100.000	5.4699
COMPRESSIBILITY FACTOR	(1/Z)	1.0036
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1254.5
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1232.7
REAL SPECIFIC GRAVITY		0.7218

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 49 PSIG

DATE RUN: 8/25/92

ANALYSIS RUN BY: CHELLE DURBIN



WELL ANALYSIS COMPARISON

LEASE: RINCON 170M

NOVEMBER 9, 1992

DATE: 10/31/92 11/7/92

NO.: 20032 20033
MESAVERDE DAKOTA

	MOLE %	MOLE %
	-----	-----
NITROGEN	0.469	0.206
CO2	0.912	1.203
METHANE	82.696	88.424
ETHANE	8.389	6.798
PROPANE	4.689	1.638
I-BUTANE	0.782	0.389
N-BUTANE	1.087	0.489
I-PENTANE	0.361	0.358
N-PENTANE	0.247	0.240
HEXANE+	0.368	0.255
BTU'S	1212.5	1125.9
-----	-----	-----
GPM	4.5169	2.8805
-----	-----	-----
SPEC GRAV	0.7015	0.6478
-----	-----	-----



(505) 325-6622

ANALYSIS NO. UN020019

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #175M

LINE PRESSURE: 249 PSIG

LOCATION:

SAMPLE TEMP.: 66 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 9/9/92

SMPL SRC:

SAMPLED BY: KIVA MEASURING

REMARKS: TAKEN AT TEST UNIT

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.225	0.0000
CO2	1.220	0.0000
METHANE	87.784	0.0000
ETHANE	7.548	2.0191
PROPANE	1.823	0.5024
I-BUTANE	0.339	0.1109
N-BUTANE	0.429	0.1353
I-PENTANE	0.191	0.0699
N-PENTANE	0.126	0.0456
HEXANE+	0.315	0.1374
TOTAL	100.000	3.0206
COMPRESSIBILITY FACTOR (1/Z)		1.0028
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1125.6
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1106.0
REAL SPECIFIC GRAVITY		0.6481

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 238 PSIG

DATE RUN: 9/10/92

ANALYSIS RUN BY: CHELLE DURBIN



(505) 325-6622

ANALYSIS NO. UN020021

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON #175M

LINE PRESSURE: 250 PSIG

LOCATION:

SAMPLE TEMP.: 80 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING:

FORMATION: MESAVERDE

DATE SAMPLED: 9/16/92; 11:00 AM

SMPL SRC:

SAMPLED BY: KIVA MEASURING

REMARKS:

ANALYSIS

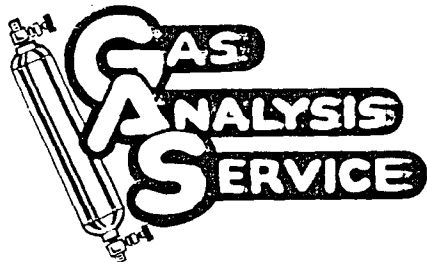
COMPONENT	MOLE%	GPM
NITROGEN	2.369	0.0000
CO2	0.948	0.0000
METHANE	81.749	0.0000
ETHANE	8.765	2.3446
PROPANE	3.718	1.0247
I-BUTANE	0.630	0.2061
N-BUTANE	0.893	0.2816
I-PENTANE	0.325	0.1189
N-PENTANE	0.218	0.0790
HEXANE+	0.385	0.1679
TOTAL	100.000	4.2228
COMPRESSIBILITY FACTOR	(1/Z)	1.0031
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1171.7
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1151.3
REAL SPECIFIC GRAVITY		0.6961

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 212 PSIG

DATE RUN: 9/17/92

ANALYSIS RUN BY: CHELLE DURBIN



FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 225-6022

ANALYSIS NO. UN020017

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 180M

LINE PRESSURE: 209 PSIG

LOCATION:

SAMPLE TEMP.: 56 DEG.F

COUNTY: RIO ARRIBA, NM

WELL FLOWING: YES

FORMATION: MESAVERDE

DATE SAMPLED: 9/3/92

SMPL SRC:

SAMPLED BY: KIVA MEASURING

REMARKS: TAKEN FROM TEST UNIT AFTER 7 DAY FLOW TEST

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	1.623	0.0000
CO2	1.175	0.0000
METHANE	87.044	0.0000
ETHANE	6.604	1.7666
PROPANE	1.902	0.5245
I-BUTANE	0.426	0.1393
N-BUTANE	0.454	0.1431
I-PENTANE	0.238	0.0871
N-PENTANE	0.137	0.0496
HEXANE+	0.391	0.1706
TOTAL	100.000	2.8808
COMPRESSIBILITY FACTOR	(1/Z)	1.0027
BTU/CU.FT. (DRY) CORRECTED FOR (1/Z)		1113.2
BTU/CU.FT. (WET) CORRECTED FOR (1/Z)		1093.8
REAL SPECIFIC GRAVITY		0.6544

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 211 PSIG

DATE RUN: 9/4/92

ANALYSIS RUN BY: CHELLE DURBIN



FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. UN030006

WELL/LEASE INFORMATION

COMPANY: UNOCAL CORPORATION

WELL NAME: RINCON 180M

LINE PRESSURE: 240 PSIG

LOCATION:

SAMPLE TEMP.: 68 DEG.F

COUNTY:

WELL FLOWING: YES

FORMATION: DAKOTA

DATE SAMPLED: 3/30/93

SMPL SRC:

SAMPLED BY: KIVA

REMARKS: TAKEN FROM TEST UNIT.

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.155	0.0000
CO2	1.156	0.0000
METHANE	87.518	0.0000
ETHANE	7.388	1.9763
PROPANE	2.136	0.5887
I-BUTANE	0.470	0.1537
N-BUTANE	0.509	0.1605
I-PENTANE	0.261	0.0955
N-PENTANE	0.143	0.0518
HEXANE+	0.264	0.1152
TOTAL	100.000	3.1416
COMPRESSIBILITY FACTOR	(1/Z)	1.0028
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1135.8
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1116.0
REAL SPECIFIC GRAVITY		0.6528

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 257 PSIG

DATE RUN: 4/4/93

ANALYSIS RUN BY: CHELLE DURGIN



WELL ANALYSIS COMPARISON

LEASE: RINCON 184M

DECEMBER 21, 1992

DATE: 12/9/92 12/16/92

NO.: 20043 20046
MESAVERDE DAKOTA

	MOLE %	MOLE %
NITROGEN	0.702	0.169
CO2	0.435	1.200
METHANE	86.677	91.707
ETHANE	6.988	4.909
PROPANE	3.594	1.145
I-BUTANE	0.498	0.198
N-BUTANE	0.663	0.283
I-PENTANE	0.171	0.114
N-PENTANE	0.129	0.086
HEXANE+	0.143	0.189
BTU'S	1152.7	1080.4
GPM	3.4034	1.9380
SPEC GRAV	0.6578	0.6182

PROPOSED ALLOCATION FORMULA

WELL	MESAVERDE		DAKOTA	
	GAS	OIL	GAS	OIL
Rincon Unit No. 1E	38%	50%	62%	50%
Rincon Unit No. 125M	56%	50%	44%	50%
Rincon Unit No. 126	17%	29%	83%	71%
Rincon Unit No. 126M	52%	50%	48%	50%
Rincon Unit No. 127	20%	0%	80%	100%
Rincon Unit No. 127M	17%	50%	83%	50%
Rincon Unit No. 128	17%	0%	83%	100%
Rincon Unit No. 129	8%	0%	92%	100%
Rincon Unit No. 129M	27%	100%	73%	0%
Rincon Unit No. 130	7%	7%	93%	93%
Rincon Unit No. 135	30%	29%	70%	71%
Rincon Unit No. 136E	8%	50%	92%	50%
Rincon Unit No. 137	13%	0%	87%	100%
Rincon Unit No. 149	11%	0%	89%	100%
Rincon Unit No. 151M	26%	50%	74%	50%
Rincon Unit No. 158M	49%	50%	51%	50%
Rincon Unit No. 159M	56%	50%	44%	50%
Rincon Unit No. 167M	21%	0%	79%	100%
Rincon Unit No. 170M	25%	50%	75%	50%
Rincon Unit No. 175M	39%	0%	61%	100%
Rincon Unit No. 180M	61%	50%	39%	50%
Rincon Unit No. 184M	<u>4%</u>	<u>0%</u>	<u>96%</u>	<u>100%</u>
AVERAGE	<u>27%</u>	<u>30%</u>	<u>73%</u>	<u>70%</u>



June 28, 1994

United States Department of the Interior
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Dear Sirs:

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

WELL	LOCATION	
Rincon Unit No. 138E	790' FSL, 790' FEL	Sec. 25, T27N, R7W
Rincon Unit No. 133E	790' FNL, 445' FWL	Sec. 14, T27N, R7W
Rincon Unit No. 128M	1175' FSL, 1885' FEL	Sec. 28, T27N, R6W
Rincon Unit No. 139E	1980' FNL, 1980' FWL	Sec. 25, T27N, R7W
Rincon Unit No. 178E	1500' FSL, 1290' FEL	Sec. 23, T27N, R7W
Rincon Unit No. 131E	1145' FNL, 1525' FWL	Sec. 36, T27N, R7W
Rincon Unit No. 185E	2100' FSL, 1610' FEL	Sec. 22, T27N, R7W
Rincon Unit No. 149E	1900' FNL, 1365' FWL	Sec. 30, T27N, R7W

If you have any objections to this proposal, please notify the NMOCD within twenty (20) days. If you have any questions about this application, please contact Dana Delventhal at (505) 632-1811.

Sincerely,

Union Oil Company of California
dba UNOCAL

Bob Caine
Field Foreman

UNOCAL 76

June 28, 1994

Amoco Production Company
P. O. Box 800
Denver, CO 80201

Dear Sirs:

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

WELL	LOCATION	
Rincon Unit No. 138E	790' FSL, 790' FEL	Sec. 25, T27N, R7W
Rincon Unit No. 133E	790' FNL, 445' FWL	Sec. 14, T27N, R7W
Rincon Unit No. 128M	1175' FSL, 1885' FEL	Sec. 28, T27N, R6W
Rincon Unit No. 139E	1980' FNL, 1980' FWL	Sec. 25, T27N, R7W
Rincon Unit No. 178E	1500' FSL, 1290' FEL	Sec. 23, T27N, R7W
Rincon Unit No. 131E	1145' FNL, 1525' FWL	Sec. 36, T27N, R7W
Rincon Unit No. 185E	2100' FSL, 1610' FEL	Sec. 22, T27N, R7W
Rincon Unit No. 149E	1900' FNL, 1365' FWL	Sec. 30, T27N, R7W

If you have any objections to this proposal, please notify the NMOCD within twenty (20) days. If you have any questions about this application, please contact Dana Delventhal at (505) 632-1811.

Sincerely,

Union Oil Company of California
dba UNOCAL



Bob Caine
Field Foreman

UNOCAL 76

June 28, 1994

Caulkins Oil Company
1997 East Blanco Blvd.
Bloomfield, NM 87413

Dear Sirs:

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

WELL	LOCATION	
Rincon Unit No. 138E	790' FSL, 790' FEL	Sec. 25, T27N, R7W
Rincon Unit No. 133E	790' FNL, 445' FWL	Sec. 14, T27N, R7W
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Rincon Unit No. 149E	1900' FNL, 1365' FWL	Sec. 30, T27N, R7W

If you have any objections to this proposal, please notify the NMOCD within twenty (20) days. If you have any questions about this application, please contact Dana Delventhal at (505) 632-1811.

Sincerely,

Union Oil Company of California
dba UNOCAL



Bob Caine
Field Foreman

UNOCAL 76

June 28, 1994

Meridian Oil, Inc.
P. O. Box 4289
Farmington, NM 87499

Dear Sirs:

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

WELL	LOCATION		
Rincon Unit No. 138E	790' FSL, 790' FEL	Sec. 25, T27N, R7W	
Rincon Unit No. 133E	790' FNL, 445' FWL	Sec. 14, T27N, R7W	
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If you have any objections to this proposal, please notify the NMOCD within twenty (20) days. If you have any questions about this application, please contact Dana Delventhal at (505) 632-1811.

Sincerely,

Union Oil Company of California
dba UNOCAL



Bob Caine
Field Foreman