

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



OIL CONSERVATION DIVISION
RECEIVED

94 JAN 10 AM 8 42

January 7, 1994

CERTIFIED RETURN RECEIPT REQUESTED

Farmington District

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

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

Rincon Unit No. 128
1600' FSL, 990' FWL
Section 28, T27N, R6W
Rio Arriba County, New Mexico

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

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 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.

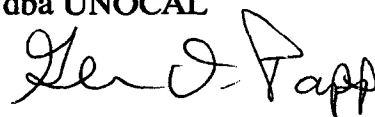
The Blanco Mesaverde formation is currently marginally economic. Commingling will allow for better lift of liquids production and benefits from compression.

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)326-7600. Thank you for your consideration in this matter.

Sincerely,

Union Oil Company of California
dba UNOCAL

A handwritten signature in black ink, appearing to read "Glen O. Papp". The signature is fluid and cursive, with the first name "Glen" and last name "Papp" being clearly legible.

Glen O. Papp
Field Superintendent

Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 6 W

20	21	22
29	28	27
RINCON UNIT #128		
32	CAULKINS 3547	EL PASO SF079210
	33	CAULKINS 3547
		34

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

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 ☐										
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 BBLs.	GRAV. OIL		OIL BBLs.
RINCON UNIT	128	L	28	27N	6W	11/93	F 64/64"	285		24	-0-	-0-	32	--
BLANCO MESAVERDE						11/93	F 64/64"	292		24	-0-	1.5	160	106,667
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*

GLEN O. PAPP

FIELD SUPERINTENDENT

Printed name and title

JANUARY 7, 1994

Date

(505) 326-7600

Telephone No.

RINCON UNIT #128

1600' FSL, 990' FWL
SEC. 28, T27N, R6W

13 3/8", 48#, H-40 CSA 306'

CMT W/ 220 SX
TOC AT SURFACE.

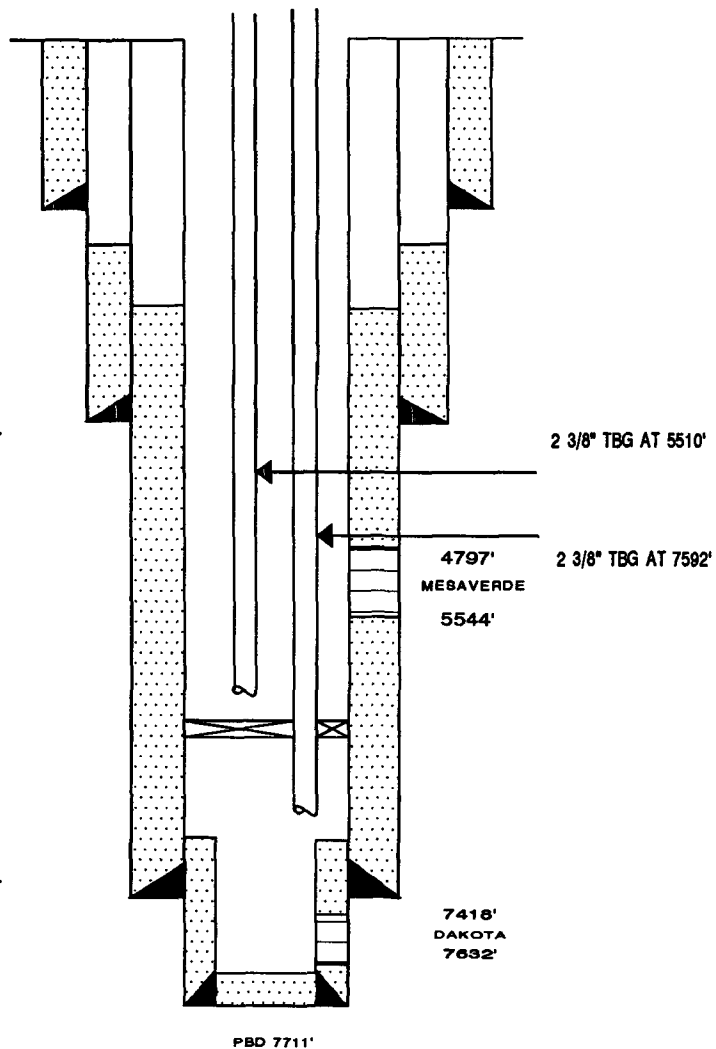
9 5/8", 36#, J-55
and 40# N-80
CASING SET AT 3391'

CMT W/ 170 SX
TOC AT 2740' BY TEMP SURV.

BAKER "D" PKR AT 6095'

7", 23# N-80 AND J-55
CASING SET AT 7368'
CMT W/ 1000 SX
TOC AT 3200' BY TEMP SURV.

5", 15#, J-55 SET FROM
7311' TO 7787'.
CMT W/ 60 SX
CIRCULATED CMT.



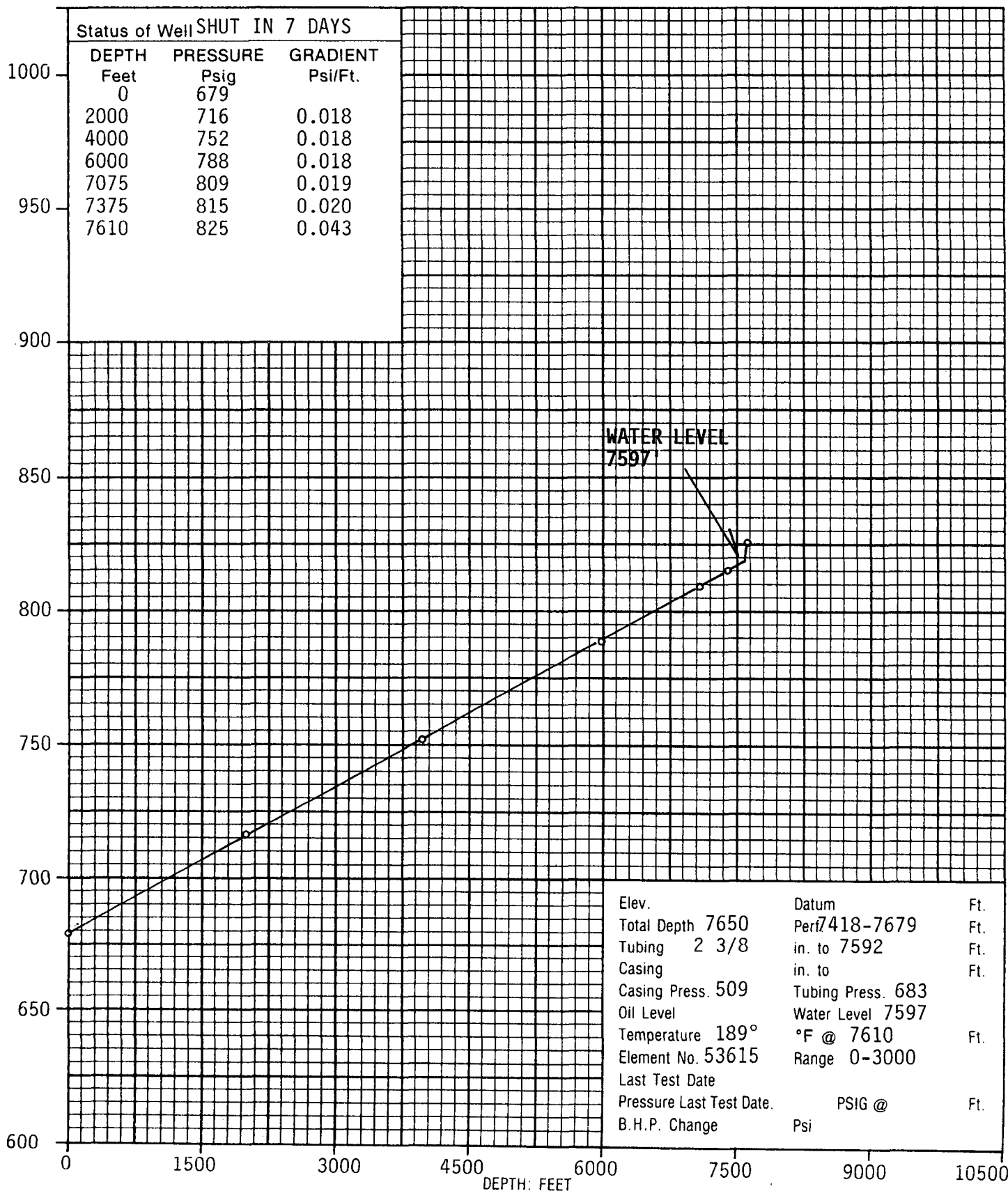


Company UNOCAL Lease RINCON UNIT Well No. 128
Field SAN JUAN BASIN County RIO ARRIBA State N.M.
Formation DAKOTA- MESA VERDE Test Date 9-21-93

Status of Well SHUT IN 7 DAYS

DEPTH	PRESSURE	GRADIENT
Feet	Psig	Psi/Ft.
0	679	
2000	716	0.018
4000	752	0.018
6000	788	0.018
7075	809	0.019
7375	815	0.020
7610	825	0.043

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev.	Datum	Ft.
Total Depth 7650	Perf 7418-7679	Ft.
Tubing 2 3/8	in. to 7592	Ft.
Casing	in. to	Ft.
Casing Press. 509	Tubing Press. 683	
Oil Level	Water Level 7597	
Temperature 189°	°F @ 7610	Ft.
Element No. 53615	Range 0-3000	
Last Test Date		
Pressure Last Test Date.	PSIG @	Ft.
B.H.P. Change	Psi	



Page 10 of 19
File 2-25399-FL&P

COMPANY UNOCAL LEASE RINCON UNIT WELL NO. 128
FIELD _____ COUNTY RIO ARRIBA STATE NEW MEXICO
FORMATION MESA VERDE TEST DATE _____ TIME _____

FLUID LEVEL REPORT

WELL DATA

Elevation _____ feet Datum _____ feet subsea Total Depth _____ feet
Perforations 4797-5544 feet Test Depth 5171 feet Packer 6095 feet
Tubing Size 1 1/4 in. to 5510 feet Tubing Pressure 512 psig
Casing Size _____ in. to _____ feet Casing Pressure 509 psig
Oil Level _____ feet Water Level _____ feet Average Tubing Joint 31.5 feet
Well Makes 0 % Oil, 100 % Water Atmospheric Temperature _____ °F
Status of Well SHUT IN 7 DAYS Operator JR-SB Unit No. P-204

PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			509
GAS			
Average Tubing Joints <u>315</u> ft. Joints to Fluid <u>147</u> Feet to Fluid.	4631	0.013	60
OIL			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
WATER			
Fluid Column Length <u>540</u> Ft. % Water <u>100</u> Water Column Length.	540	0.430	232

PRESSURE AT TEST DEPTH

5171 801

Calculated subsurface pressure at datum depth of 5171 feet subsea is 801 psig
Last Test Date _____ Pressure Last Test _____ psig BHP Change _____ psi
Remarks: _____

RINCON UNIT NO. 128

After a 7 day SI period:

$$\text{Mesaverde BHP} = 801 \text{ psi @ } 5171'$$

$$\text{Dakota BHP} = 825 \text{ psi @ } 7610'$$

$$\text{Gas Gradient} = 0.018 \text{ psi/ft}$$

Adjusting to a common datum of 5171':

$$\text{Mesaverde BHP} = 801 \text{ psi}$$

$$\text{Dakota BHP} = 825 - [(0.018)(7610 - 5171)] = 781 \text{ psi}$$

Therefore the reservoir pressures fall within the 50% requirement.

EL PASO NATURAL GAS COMPANY
VOLUME ACCOUNTING DEPARTMENT
MEASUREMENT DIVISION
POST OFFICE BOX 1482
EL PASO, TEXAS 79878
PHONE: (915) 541-5267

DATE 8/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

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

METER NUMBER 72812 - RINCON UNIT NP #128 MV
OPERATOR 9185 - UNION OIL CO OF CALIF

ANALYSIS DATE	5/28/92	TYPE CODE	2 - ACTUAL
SAMPLE DATE	5/28/92	H2S GRAINS	0
EFFECTIVE DATE	8/01/92	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) 541-5287

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 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

RINCON UNIT NO. 128
ALLOCATION FORMULA

<u>GAS PRODUCTION:</u>	Mesaverde Rate	32 MCFD
	Dakota Rate	<u>160</u> MCFD
	Total Rate	<u>192</u> MCFD

Therefore,	Mesaverde	17%
	Dakota	83%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0.0 BOPD
	Dakota Rate	<u>1.5</u> BOPD
	Total Rate	<u>1.5</u> BOPD

Therefore,	Mesaverde	0%
	Dakota	100%

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Unocal Corporation
3300 North Butler Avenue
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Fax: (505) 326-6145



January 7, 1994

Farmington District

United States Department of the Interior
Bureau of Land Management
1235 La Plata Highway
Farmington, New Mexico 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 well:

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1600' FSL, 990' FWL
Section 28, T27N, R6W
Rio Arriba County, New Mexico

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)326-7600.

Sincerely,

Union Oil Company of California
dba UNOCAL

Glen O. Papp
Field Superintendent

GOP/DLD/df

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



January 7, 1994

Farmington District

Meridian Oil Production Inc.
P.O. Box 4289
Farmington, New Mexico 87499

Dear Sirs:

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Rio Arriba County, New Mexico

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Sincerely,

Union Oil Company of California
dba UNOCAL

Glen O. Papp
Field Superintendent

GOP/DLD/df

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



January 7, 1994

Farmington District

Caulkins Oil Company
310 North First
Bloomfield, New Mexico 87413

Dear Sirs:

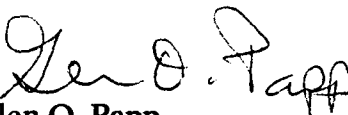
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Sincerely,

Union Oil Company of California
dba UNOCAL


Glen O. Papp
Field Superintendent

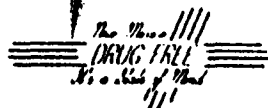
GOP/DLD/df



CONSERVATION DIVISION
ENERGY, MINERALS and NATURAL RESOURCES DIVISION

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6170

94 JAN 25 AM 9 34

Date: 1/22/94

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL _____
Proposed WFX _____
Proposed NSP _____

Proposed DHC X _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Gentlemen:

I have examined the application received on 1/10/94
for the Unocal Rincon Unit # 128
OPERATOR LEASE & WELL NO.

L-28-27N-6W and my recommendations are as follows:
UL-S-T-R

Approve

Yours truly,
[Signature]