

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 12 AM 7 50



January 10, 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. 108
1750' FNL, 1750' FEL
Section 19, 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.

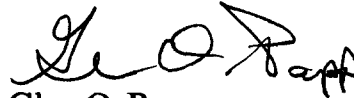
The Blanco Mesaverde formation is currently marginally economic. Commingling will allow for better lift of liquids production and benefits from compression.

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', is written over the typed name.

Glen O. Papp
Field Superintendent


Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

13	18	17
EL PASO 79298C	 RINCON UNIT #108 19	20
24		29
25	30	

T 27 N

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

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

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		SCHEDULED <input type="checkbox"/>		COMPLETION <input checked="" type="checkbox"/>		SPECIAL <input type="checkbox"/>								
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	108	G	19	27N	6W	11/93	F 64/64"	286		24	-0-	-0-	60	--
BLANCO MESAVERDE						11/93	F 64/64"	299		24	-0-	-0-	108	120,000
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.

Glen O. Papp
Signature

GLEN O. PAPP

Printed name and title

FIELD SUPERINTENDENT

JANUARY 10, 1994

Date

(505) 326-7600

Telephone No.

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

RINCON UNIT #108

1750' FNL, 1750' FWL
SEC. 19, T27N, R6W

10 3/4", 32.75# CSA 173'

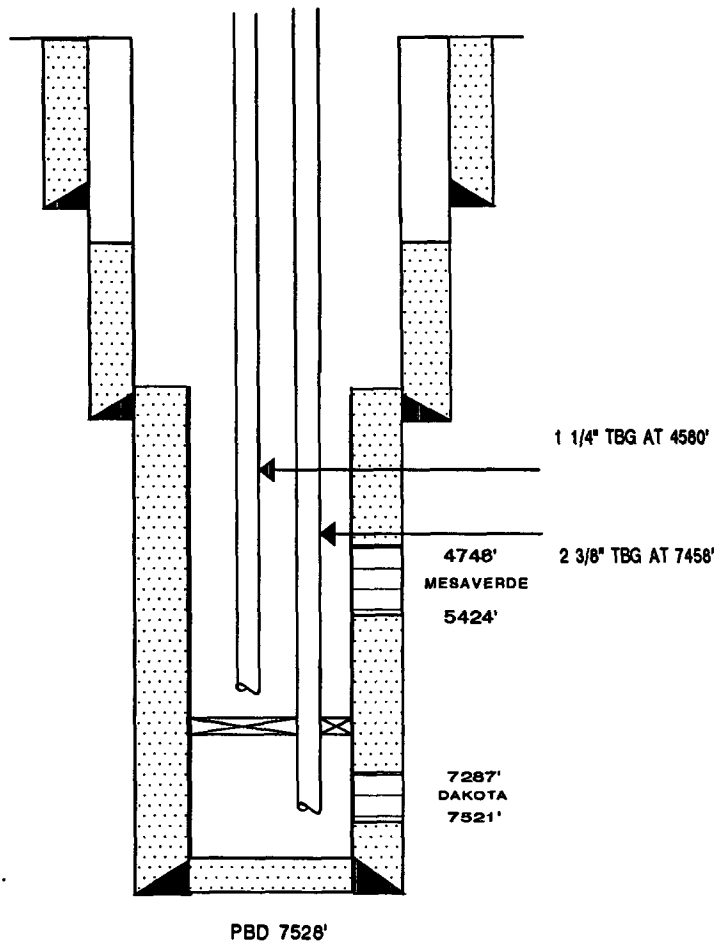
CMT W/ 125 SX
TOC AT SURFACE.

7 5/8", 26.4# J-55,
CASING SET AT 4680'

CMT W/ 250 SX
TOC AT 750' BY TEMP SURV.

BAKER "D" PKR AT 5500'

5 1/2", 15.5#, J-55 CSG
SET FROM 4628' TO 7529'
CMT W/ 600 SX
TOC AT 4770' BY TEMP SURV.





MIDLAND, TEXAS

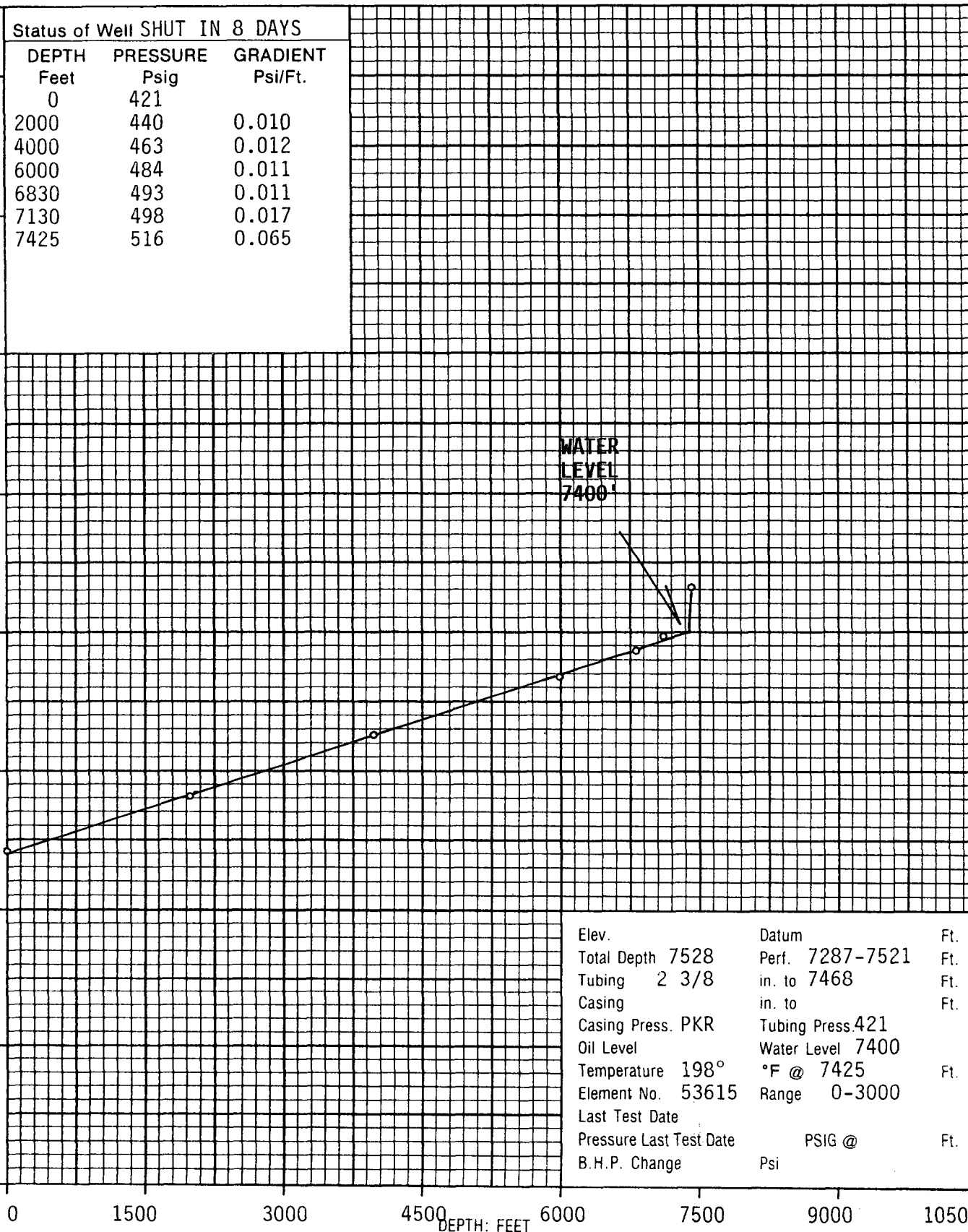
Company UNOCAL Lease RINCON UNIT Well No. 108
Field SAN JUAN BASIN County RIO ARRIBA State N.M.
Formation Dakota - Mesa Verde Test Date 9-22-93

Status of Well SHUT IN 8 DAYS

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	421	
2000	440	0.010
4000	463	0.012
6000	484	0.011
6830	493	0.011
7130	498	0.017
7425	516	0.065

PRESSURE POUNDS PER SQUARE INCH GAUGE

700
650
600
550
500
450
400
350
300



Elev.	Datum	Ft.
Total Depth 7528	Perf. 7287-7521	Ft.
Tubing 2 3/8	in. to 7468	Ft.
Casing	in. to	Ft.
Casing Press. PKR	Tubing Press. 421	
Oil Level	Water Level 7400	
Temperature 198°	°F @ 7425	Ft.
Element No. 53615	Range 0-3000	
Last Test Date		
Pressure Last Test Date	PSIG @	Ft.
B.H.P. Change	Psi	

0 1500 3000 4500 6000 7500 9000 10500 DEPTH: FEET



Page 2 of 19

File 2-25399-FL&P

COMPANY UNOCAL LEASE RINCON UNIT WELL NO. 108
 FIELD _____ COUNTY RIO ARRIBA STATE NEW MEXICO
 FORMATION MESA VERDE TEST DATE 9-22-93 TIME _____

FLUID LEVEL REPORT

WELL DATA

Elevation _____ feet Datum _____ feet subsea Total Depth _____ feet
 Perforations 4748-5424 feet Test Depth 5086 (MP) feet Packer 5500 feet
 Tubing Size 1 1/4 in. to 4590 feet Tubing Pressure 326 psig
 Casing Size _____ in. to _____ feet Casing Pressure 329 psig
 Oil Level _____ feet Water Level _____ feet Average Tubing Joint 31.5 feet
 Well Makes _____ % Oil, _____ % Water Atmospheric Temperature _____ °F
 Status of Well SHUT IN 8 DAYS Operator JR-SB Unit No. P-204

PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			329
GAS			
Average Tubing Joints <u>31.5</u> ft. Joints to Fluid <u>140</u> Feet to Fluid.	4410	0.008	35
OIL			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
WATER			
Fluid Column Length <u>676</u> Ft. % Water <u>100</u> Water Column Length.	676	0.430	291

PRESSURE AT TEST DEPTH

5086 655

Calculated subsurface pressure at datum depth of 5086 feet subsea is 655 psig
 Last Test Date _____ Pressure Last Test _____ psig BHP Change _____ psi
 Remarks: _____

RINCON UNIT NO. 108

After a 7 day SI period:

Mesaverde BHP = 655 psi @ 5086'

Dakota BHP = 516 psi @ 7425'

Gas Gradient = 0.011 psi/ft

Adjusting to a common datum of 5086':

Mesaverde BHP = 655 psi

Dakota BHP = 516 - [(0.011)(7425 - 5086)] = 490 psi

Therefore the reservoir pressures fall within the 50% requirement.

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 3/11/92

MAILEE
94100

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

METER NUMBER 72393 - RINCON UNIT #108 MV
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE	99/99/99	TYPE CODE	2 - ACTUAL
SAMPLE DATE	6/10/91	H2S GRAINS	0
EFFECTIVE DATE	3/01/92	LOCATION	F - FARMINGTON
EFFECTIVE FOR	6 MONTHS		

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.22	.000
H2S	.00	.000
N2	.60	.000
METHANE	83.26	.000
ETHANE	7.96	2.129
PROPANE	4.01	1.105
ISO-BUTANE	.77	.252
NORM-BUTANE	1.03	.325
ISO-PENTANE	.39	.143
NORM-PENTANE	.25	.091
HEXANE PLUS	<u>.51</u>	<u>.223</u>
	100.00	4.268

SPECIFIC GRAVITY .700
MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1200
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 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 72394 - RINCON UNIT #108 DK
OPERATOR 9165 - UNION OIL CO OF CALIF

ANALYSIS DATE 12/03/92 TYPE CODE 2 - ACTUAL
SAMPLE DATE 12/02/92 H2S GRAINS 0
EFFECTIVE DATE 1/01/93 LOCATION F - FARMINGTON
EFFECTIVE FOR 6 MONTHS

COMPONENTS	NORMALIZED MOL %	GPM
CO2	1.23	.000
H2S	.00	.000
N2	.21	.000
METHANE	84.03	.000
ETHANE	8.68	2.322
PROPANE	3.07	.846
ISO-BUTANE	.56	.183
NORM-BUTANE	.92	.290
ISO-PENTANE	.42	.154
NORM-PENTANE	.33	.120
HEXANE PLUS	.55	.240
	100.00	4.155

SPECIFIC GRAVITY .691

MIXTURE HEATING VALUE
(BTU @ 14.73 DRY) 1193

RATIO OF SPECIFIC HEATS .000

NO TEST SECURED FOR H2S CONTENT

RINCON UNIT NO. 108
ALLOCATION FORMULA

<u>GAS PRODUCTION:</u>	Mesaverde Rate	60 MCFD
	Dakota Rate	<u>108</u> MCFD
	Total Rate	<u>168</u> MCFD

Therefore,	Mesaverde	36%
	Dakota	64%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0.0 BOPD
	Dakota Rate	<u>0.9</u> BOPD
	Total Rate	<u>0.9</u> BOPD

Therefore,	Mesaverde	0%
	Dakota	100%

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



January 10, 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:

Rincon Unit No. 108
1750' FNL, 1750' FEL
Section 19, 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 10, 1994

Farmington District

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

Dear Sirs:


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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
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UNOCAL 76

January 10, 1994

Farmington District

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

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RECEIVED
JAN 24 1994
OIL CON. DIV
DIST. 3

Sincerely,

Union Oil Company of California
dba UNOCAL

Glen O. Papp
Glen O. Papp
Field Superintendent

GOP/DLD/df

NMOCD
FARMINGTON COPY

APPROVED

[Signature]
JAN 19 1994
DISTRICT MANAGER



RECEIVED

94 JAN 27 AM 10 03

STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 1-26-94

Attn: Ben Stone

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 1-12-94
for the UNOCAL OPERATOR Rincon Unit #108 LEASE & WELL NO.

G-19-27N-06W and my recommendations are as follows:
UL-S-T-R

Approve

Yours truly,

Erin Brach

DHC-970