

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

DEC 30 4 AM 10 04

December 30, 1993

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. 129
1650' FSL, 1840' FWL
Section 29, 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.

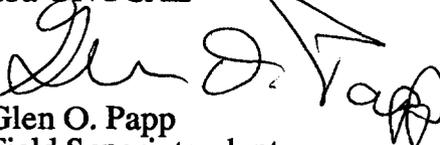
The Blanco Mesaverde formation is currently marginally economic. Commingling will allow for better lift of liquids production and benefits from compression.

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



Glen O. Papp
Field Superintendent

Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 6 W

T 27 N

19	20	21
30	29	28
31	32	33

RINCON UNIT #129

CAULKINS
3547

State of New Mexico
Energy, Minerals and Natural Resources Department
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										
3300 North Butler, Suite 200, Farmington, New Mexico 87401		Scheduled <input 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	129	K	29	27N	6W									
Blanco Mesaverde						11/93	F 64/64"	292		24	-0-	-0-	11	--
Basin Dakota						11/93	F 64/64"	297		24	-0-	-0-	130	162,500

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
Printed name and title
December 30, 1993
Date
Field Superintendent
(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 & appropriate pool rules.)

RINCON UNIT #129

1650' FSL, 1840' FWL
SEC. 29, T27N, R6W

13 3/8", 48#, H-40 CSA 345'

CMT W/ 220 SX
TOC AT SURFACE.

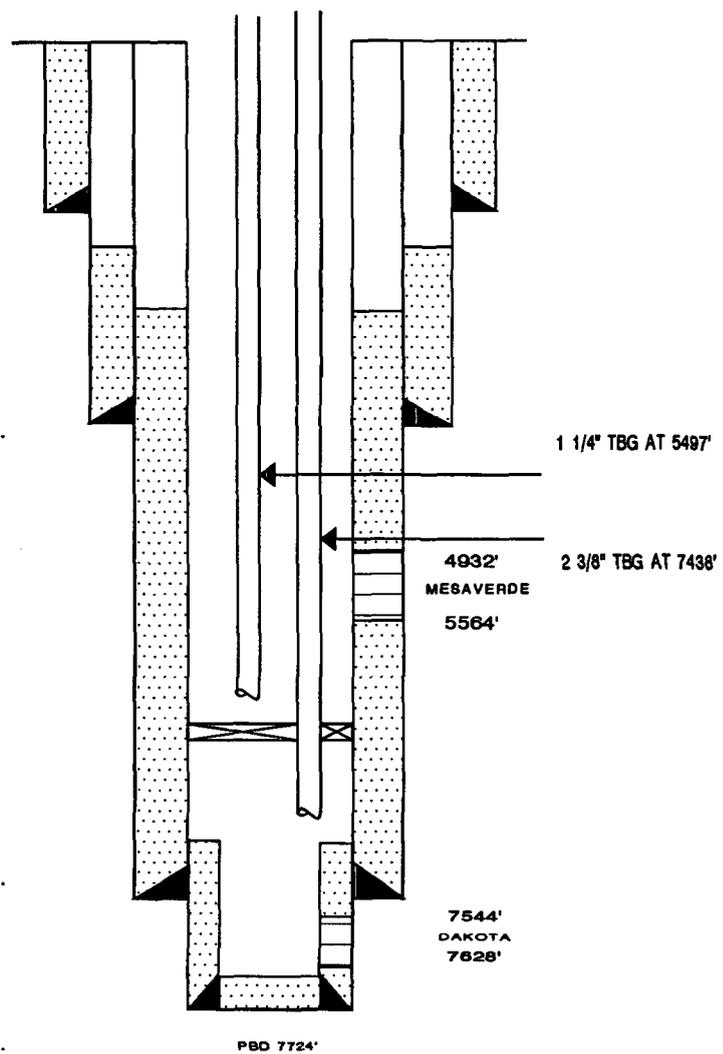
9 5/8", 36#, J-55
CASING SET AT 3363'

CMT W/ 170 SX
TOC AT 2430' BY TEMP SURV.

BAKER 'D' PKR AT 6483'

7", 23# N-80 AND J-55
CASING SET AT 7365'
CMT W/ 1010 SX
TOC AT 3150' BY TEMP SURV.

5", 15#, P-110 SET FROM
7266' TO 7768'.
CMT W/ 75 SX
TOC AT 7266' BY TEMP SURV.



1 1/4" TBG AT 5497'

2 3/8" TBG AT 7438'

4932'
MESAVERDE
5564'

7544'
DAKOTA
7628'

PBD 7724'

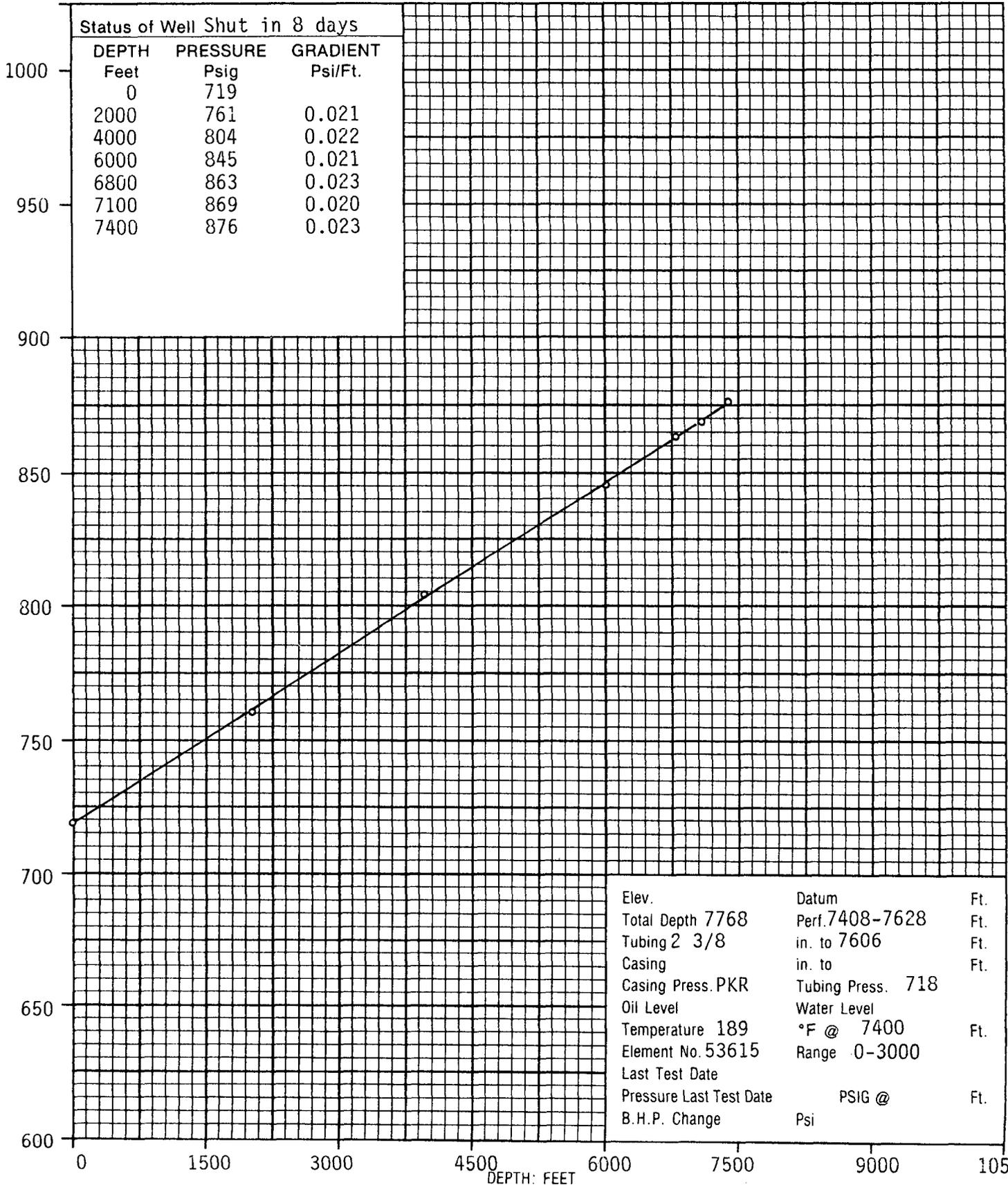


Company UNOCAI Lease RINCON UNIT Well No 129
 Field SAN JUAN BASIN County RIO ARRIBA State N.M.
 Formation DAKOTA-MESA VERDE Test Date 9-22-93

Status of Well Shut in 8 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	719	
2000	761	0.021
4000	804	0.022
6000	845	0.021
6800	863	0.023
7100	869	0.020
7400	876	0.023

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev.	Datum	Ft.
Total Depth 7768	Perf. 7408-7628	Ft.
Tubing 2 3/8	in. to 7606	Ft.
Casing	in. to	Ft.
Casing Press. PKR	Tubing Press. 718	
Oil Level	Water Level	
Temperature 189	°F @ 7400	Ft.
Element No. 53615	Range 0-3000	
Last Test Date		
Pressure Last Test Date	PSIG @	Ft.
B.H.P. Change	Psi	



Page 12 of 19

File 2-25399-FL&P

COMPANY Unocal Corporation LEASE Rincon Unit WELL NO. 129
 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 5396-5564 feet Test Depth 5480(MP) feet Packer 6490 feet
 Tubing Size 1 1/4 in. to 5460 feet Tubing Pressure 625 psig
 Casing Size 7 in. to 7365 feet Casing Pressure 620 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-4

PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			620
GAS			
Average Tubing Joints <u>31.5</u> ft. Joints to Fluid <u>166</u> Feet to Fluid.	5229	0.015	78
OIL			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
WATER			
Fluid Column Length <u>251</u> Ft. % Water <u>100</u> Water Column Length.	251	0.430	108

PRESSURE AT TEST DEPTH 5480 806
 Calculated subsurface pressure at datum depth of 5480 feet subsea is 806 psig
 Last Test Date _____ Pressure Last Test _____ psig BHP Change _____ psi
 Remarks: _____

RINCON UNIT NO. 129

After a 7 day SI period:

$$\text{Mesaverde BHP} = 806 \text{ psi @ } 5480'$$

$$\text{Dakota BHP} = 876 \text{ psi @ } 7400'$$

$$\text{Gas Gradient} = 0.021 \text{ psi/ft}$$

Adjusting to a common datum of 5480':

$$\text{Mesaverde BHP} = 806 \text{ psi}$$

$$\text{Dakota BHP} = 876 - [(0.021)(7400 - 5480)] = 836 \text{ psi}$$

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 4/08/93

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

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 10/08/92

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
	<u>100.00</u>	<u>3.300</u>

SPECIFIC GRAVITY .667

MIXTURE HEATING VALUE
 (BTU @ 14.73 DRY) 1143

RATIO OF SPECIFIC HEATS 1.295

NO TEST SECURED FOR H2S CONTENT

RINCON UNIT NO. 129
ALLOCATION FORMULA

GAS PRODUCTION:

Mesaverde Rate	11 MCFD
Dakota Rate	<u>130</u> MCFD
Total Rate	<u>141</u> MCFD

Therefore,

Mesaverde	8%
Dakota	92%

OIL PRODUCTION:

Mesaverde Rate	0.0 BOPD
Dakota Rate	<u>0.8</u> BOPD
Total Rate	<u>0.8</u> BOPD

Therefore,

Mesaverde	0%
Dakota	100%

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UNOCAL 

December 30, 1993

Farmington District

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

Dear Sirs:

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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

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



December 30, 1993

Farmington District

Caulkins Oil Company
310 North First
Bloomfield, New Mexico 87413

Dear Sirs:

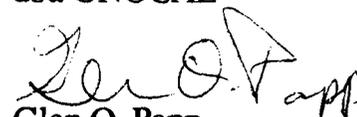
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dba UNOCAL



Glen O. Papp
Field Superintendent

GOP/DLD/df



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
RECEIVED

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

94 JAN 25 AM 9 35

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

Date: 1-21-94

W.M. 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 1-4-94

for the UNOCAL
OPERATOR

PINCON UNIT # 129
LEASE & WELL NO.

K-29-27N-6W and my recommendations are as follows:
UL-S-T-R

Approve

Yours truly,

Ernie Burch