

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



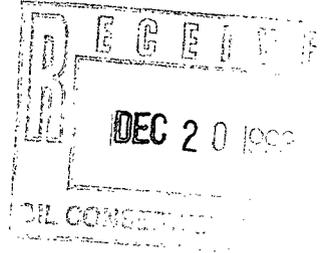
December 17, 1993

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. 149
1100' FSL, 1750' FWL
Section 30, 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

Glen O. Papp
Field Superintendent

Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 7 W

R 6 W

EL PASO 79298C 24	19	20
25	30 	29
36	31	32

RINCON UNIT #149

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		Blanco Mesaverde/Basin Dakota		Pool		County							
Address		3300 N. Butler, Suite 200, Farmington, NM 87401		Blanco Mesaverde/Basin Dakota		Rio Arriba									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	SCHEDULED	DAILY ALLOWABLE	LENGTH OF TEST HOURS	Completion		Special	GAS - OIL RATIO CU FT/BBL.	
		U	S	T	R						WATER BBL.S.	PROD. DURING TEST GRAV. OIL			OIL BBL.S.
Rincon Unit	149	N	30	27N	6W			<input type="checkbox"/>		24	-0-		-0-	19	--
Blanco Mesaverde Basin Dakota						07/93	F	64"/64"	115	24	-0-		-0-	19	--
						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.)

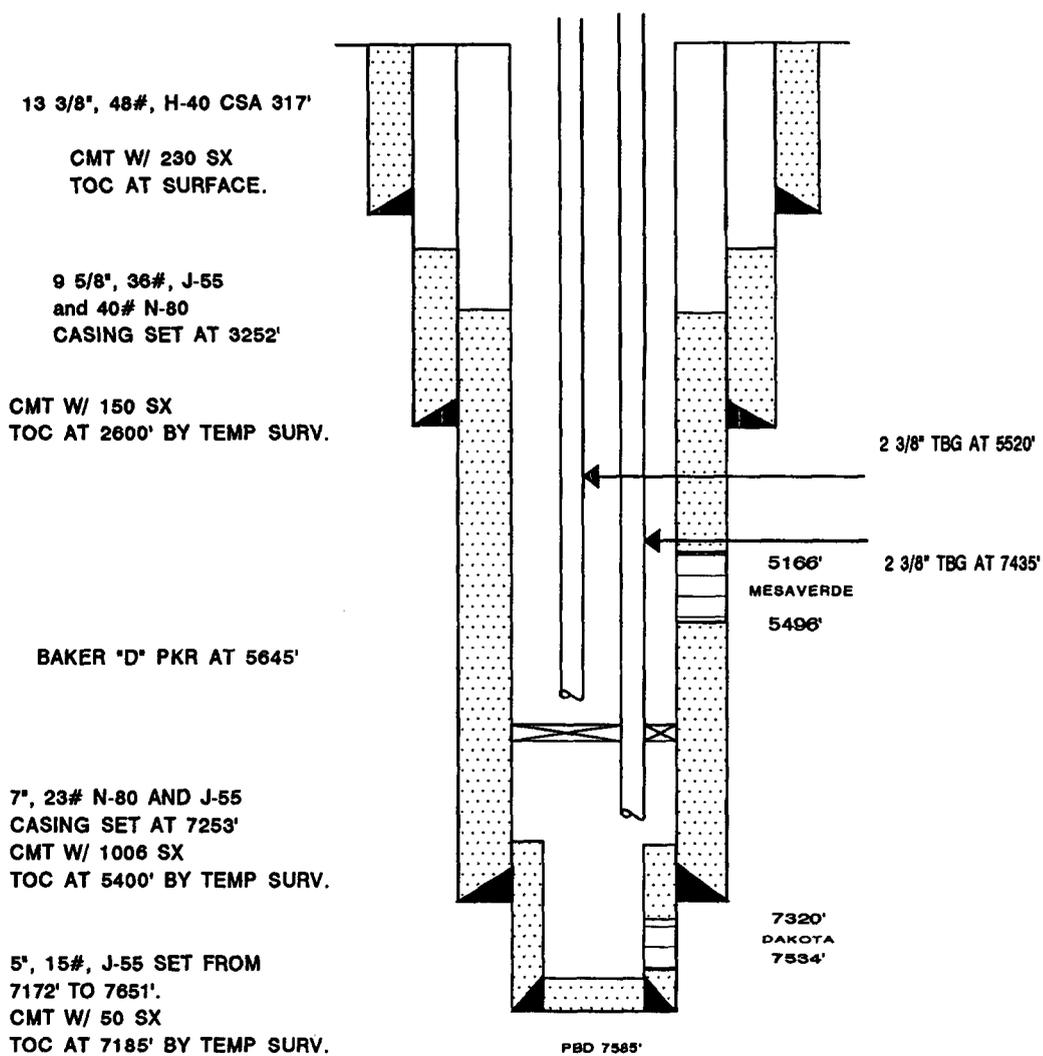
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature Glen O. Papp
 Glen O. Papp
 Field Superintendent

Printed name and title
 December 17, 1993
 Date
 (505) 326-7600
 Telephone No.

RINCON UNIT #149

1100' FSL, 1750' FWL
SEC. 30, T27N, R6W

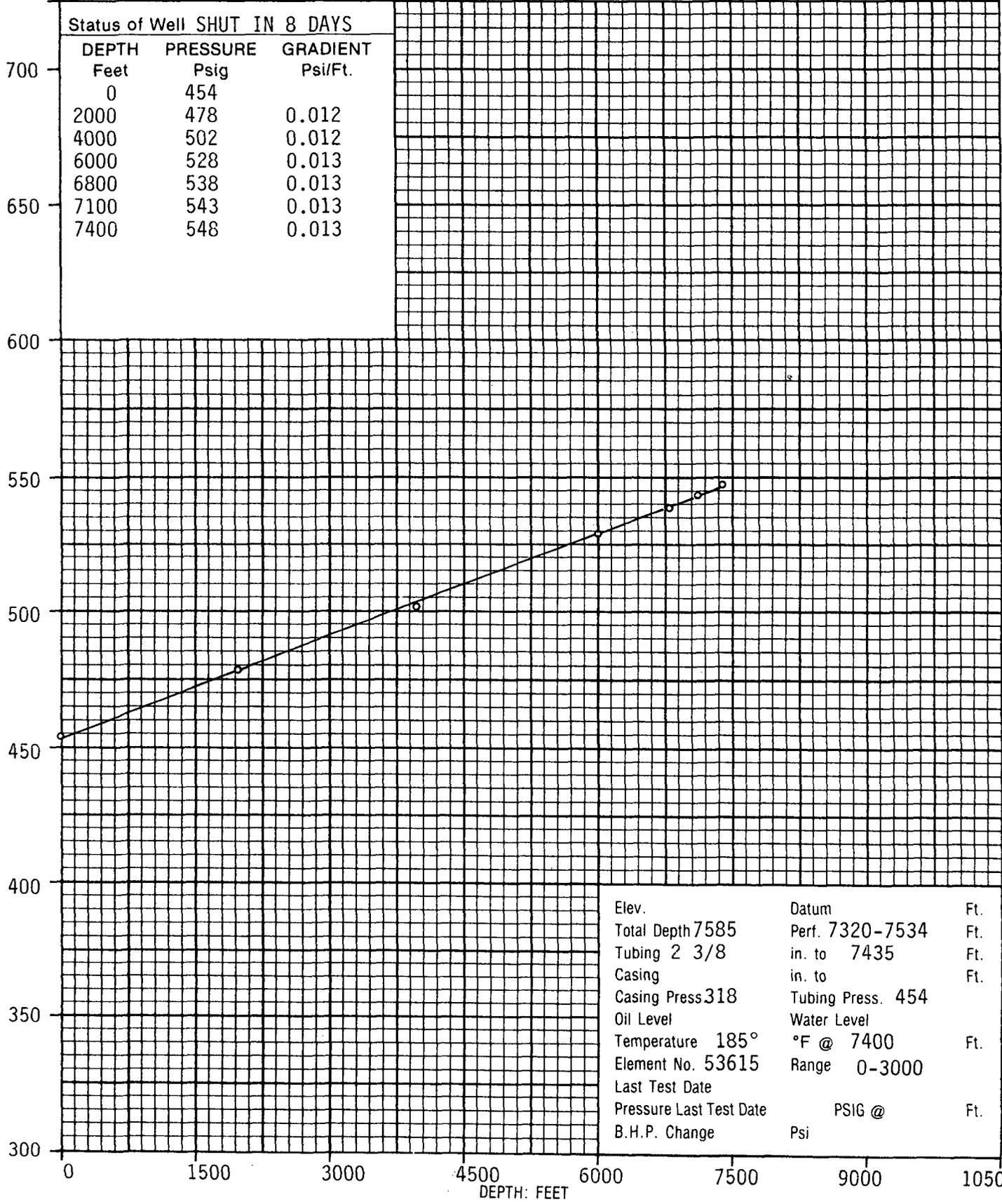




Company UNOCAL Lease RINCON UNIT Well No. 149
 Field SAN JUAN BASIN County RIO ARRIBA State N.M.
 Formation DAKOTA Test Date 9-22-93

Status of Well SHUT IN 8 DAYS		
DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	454	
2000	478	0.012
4000	502	0.012
6000	528	0.013
6800	538	0.013
7100	543	0.013
7400	548	0.013

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev.	Datum	Ft.
Total Depth 7585	Perf. 7320-7534	Ft.
Tubing 2 3/8	in. to 7435	Ft.
Casing	in. to	Ft.
Casing Press 318	Tubing Press. 454	
Oil Level	Water Level	
Temperature 185°	°F @ 7400	Ft.
Element No. 53615	Range 0-3000	
Last Test Date		
Pressure Last Test Date	PSIG @	Ft.
B.H.P. Change	Psi	



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

COMPANY UNOCAL LEASE RINCON UNIT WELL NO. 149
 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 5166-5496 feet Test Depth 5331(MP) feet Packer 5645 feet
 Tubing Size 2 3/8 in. to 5520 feet Tubing Pressure 315 psig
 Casing Size _____ in. to _____ feet Casing Pressure 318 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 8 days Operator JR-SB Unit No. P-204

PRESSURE DATA

	Feet	Gradient Psig/Ft.	Psi
Casing Pressure			318
GAS			
Average Tubing Joints <u>31.5</u> ft. Joints to Fluid <u>161</u> Feet to Fluid.	5071	0.008	41
OIL			
Fluid Column Length _____ ft. % Oil _____ Oil Column Length.			
WATER			
Fluid Column Length <u>260</u> Ft. % Water <u>100</u> Water Column Length.	260	0.430	112

PRESSURE AT TEST DEPTH _____ 5331 _____ 471
 Calculated subsurface pressure at datum depth of 5331 feet subsea is 471 psig
 Last Test Date _____ Pressure Last Test _____ psig BHP Change _____ psi
 Remarks: _____

RINCON UNIT NO. 149

After a 7 day SI period:

$$\text{Mesaverde BHP} = 471 \text{ psi @ } 5331'$$

$$\text{Dakota BHP} = 548 \text{ psi @ } 7400'$$

$$\text{Gas Gradient} = 0.013 \text{ psi/ft}$$

Adjusting to a common datum of 5331':

$$\text{Mesaverde BHP} = 471 \text{ psi}$$

$$\text{Dakota BHP} = 548 - [(0.013)(7400 - 5331)] = 521 \text{ psi}$$

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 79978
 PHONE: (915) 541-5287
 CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 6/08/92

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

EL PASO NATURAL GAS COMPANY
 VOLUME ACCOUNTING DEPARTMENT
 MEASUREMENT DIVISION
 POST OFFICE BOX 1482
 EL PASO, TEXAS 79878
 PHONE: (915) 541-5287
 CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 6/08/92

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	6.86	1.835
PROPANE	2.30	.634
ISO-BUTANE	.45	.147
NORM-BUTANE	.64	.202
ISO-PENTANE	.27	.099
NORM-PENTANE	.19	.069
HEXANE PLUS	<u>.58</u>	<u>.253</u>
	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

RINCON UNIT NO. 149
ALLOCATION FORMULA

<u>GAS PRODUCTION:</u>	Mesaverde Rate	19 MCFD
	Dakota Rate	<u>147</u> MCFD
	Total Rate	<u>166</u> MCFD

Therefore,	Mesaverde	11%
	Dakota	89%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0.00 BOPD
	Dakota Rate	<u>0.25</u> BOPD
	Total Rate	<u>0.25</u> BOPD

Therefore,	Mesaverde	0%
	Dakota	100%

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UNOCAL 76

December 17, 1993

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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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 20

Glen O. Papp
Field Superintendent

GOP/DLD/df

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



December 17, 1993

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
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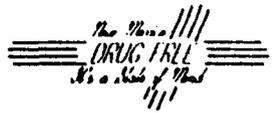
A handwritten signature in cursive script that reads "Glen O. Papp".

Glen O. Papp
Field Superintendent

GOP/DLD/df



STATE OF NEW MEXICO



ENERGY, MINERALS and NATURAL RESOURCES DIVISION

OIL CONSERVATION DIVISION RECEIVED

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

BRUCE KING GOVERNOR

DEC 27 AM 10 46

ANITA LOCKWOOD CABINET SECRETARY

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

Date: 12/22/93

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

RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX Proposed NSP Proposed DD

Gentlemen:

I have examined the application received on 12/20/93

for the Operator Review Unit #149 LEASE & WELL NO.

N-30-27N-6W and my recommendations are as follows: UL-S-T-R

Approve. The question of the TOC for the 5" casing and the perf. depths is not clearly answered. However, MV treating pressures and part BIT Tests don't indicate a problem.

Yours truly, [Signature]