



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ADMINISTRATIVE ORDER DHC-916

UNOCAL Oil & Gas Division
3300 North Butler Avenue
Farmington, NM 87401

Attention: Glen O. Papp

RECEIVED

SEP 23 1993

OIL CON. DIV.
DIST

*Rincon Unit Well No. 127-M
Unit D, Section 28, Township 27 North, Range 6 West, NMPM,
Rio Arriba County, New Mexico.
Blanco Mesaverde and Basin Dakota Pools*

Dear Mr. Papp:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 50 barrels per day, and total water production shall not exceed 100 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

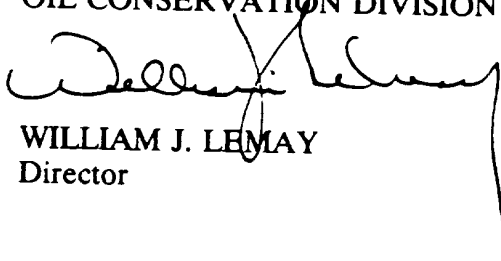
Blanco Mesaverde Pool	Oil	50%	Gas	17%
Basin Dakota Pool	Oil	50%	Gas	83%

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 17th day of September, 1993.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

WJL/BES/amg

cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington



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: 8-27-93

Atty. David C. Larrach

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 8-6-93

for the UNOCORP OPERATOR PENCON U#12711 LEASE & WELL NO.

D-22-27N-C6W and my recommendations are as follows:
UL-S-T-R

Approved

Yours truly,

Eric B. Burch

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

UNOCAL 76

August 4, 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

RECEIVED
AUG - 6 1993
OIL CON. DIV
DIST. 3

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. 127M
850' FNL, 800' 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.

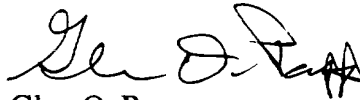
The Blanco Mesaverde formation is uneconomic to drill as a stand alone well. To develop these reserves, a dual or commingled completion is required. We estimate an ultimate recovery of approximately 750 MMCF from the Mesaverde horizon, which would otherwise remain undeveloped. Also, commingling will 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)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", with a stylized flourish at the end.

Glen O. Papp
Field Superintendent

Attachments

GOP/DLD/df

OFFSET LEASE OWNERSHIP

R 6 W

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

RINCON UNIT #127M



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 MESAVEVERDE/BASIN DAKOTA		RIO ARriba									
Address		TYPE OF TEST - (X)		Completion									
3300 N. Butler, Suite 200, Farmington, NM 87401		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/BBLS.
		U	S	T						R	WATER BBLs.	GRAV. OIL	
Rincon Unit	127M	D	28	27N	6W	11/25/92	F	48/64"	30	24	-0-	88	---
Blanco Mesaverde						12/03/92	F	16/64"	390	24	3	366	---
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

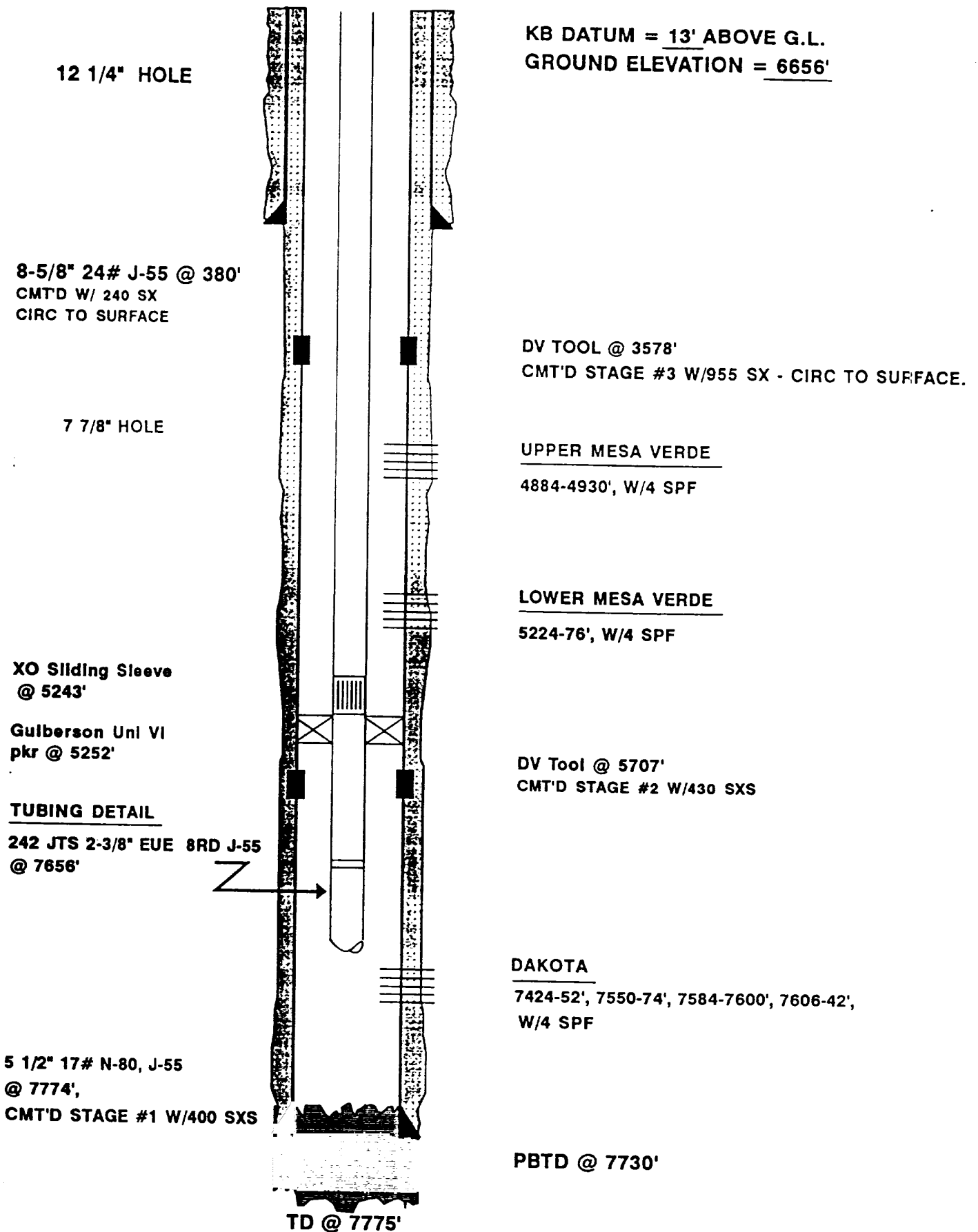
Printed name and title

August 4, 1993 (505) 326-7600

Date

Telephone No.

RINCO UNIT NO. 127-M
850' FNL, 800' FWL, SEC 28 T27N R6W
RIO ARRIBA COUNTY, NM



KB DATUM = 13' ABOVE G.L.
GROUND ELEVATION = 6656'

8-5/8" 24# J-55 @ 380'
CMT'D W/ 240 SX
CIRC TO SURFACE

DV TOOL @ 3578'
CMT'D STAGE #3 W/955 SX - CIRC TO SURFACE.

7 7/8" HOLE

UPPER MESA VERDE
4884-4930', W/4 SPF

LOWER MESA VERDE
5224-76', W/4 SPF

XO Sliding Sleeve
@ 5243'

Gulberson Uni VI
pkr @ 5252'

DV Tool @ 5707'
CMT'D STAGE #2 W/430 SXS

TUBING DETAIL

242 JTS 2-3/8" EUE 8RD J-55
@ 7656'

DAKOTA
7424-52', 7550-74', 7584-7600', 7606-42',
W/4 SPF

5 1/2" 17# N-80, J-55
@ 7774',
CMT'D STAGE #1 W/400 SXS

PBTD @ 7730'

TD @ 7775'

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company Unocal Lease Rincon Well 127-M
County Rio Arriba State N.M. Date 11-25-92
Shut-In _____ Zero Point K.B. Tbg. Pressure 1140
Casing Pressure _____ Tbg. Depth _____ Casing Perf. _____
Max. Temp. _____ Fluid Level None

DEPTH

PSIG

GRADIENT

0	1135	- - -
1000	1165	.030
2000	1196	.031
3000	1226	.030
4000	1257	.031
5000	1288	.031
6000	1316	.028
7000	1343	.027
7100	1347	.040
7200	1350	.030
7300	1352	.020
7400	1354	.020
7523	1356	.016

B & R SERVICE, INC.
P.O. BOX 1048
FARMINGTON, N.M.

FLUID LEVEL SURVEY

COMPANY: UNOCAL CORPORATION COUNTY: RIO ARriba
FIELD: RINCON DATE: _____ STATE: N. MEX.

LEASE AND WELL NO.	LOCATION	TIME	ELEV.	DATUM	CASING PRESSURE PSIG	JOINTS TO FLUID	FEET TO FLUID	FLUID ABOVE DATUM	PRESSURE AT DATUM
10/30/92 RINCON 158 M				MID PERF. 5039'	540	110	3432'	1607'	1231 PSIG
11/01/92 RINCON 151 M				MID PERF. 5211'	750	130	4108'	1103'	1228 PSIG
11/04/92 RINCON 171 M				MID PERF. 4883'	340	152	4758'	125'	394 PSIG
12/17/92 RINCON 184 M				MID PERF. 5127'	965	105	3308'	1819'	1753 PSIG
12/19/92 RINCON 136 E				MID PERF. 4845'	600	118	3729'	1116'	1139 PSIG
12/19/92 RINCON 127 M				MID PERF. 5080'	610	153	4835'	245'	716 PSIG
12/22/92 RINCON 125 M				MID PERF. 5277'	480	154	4882'	395'	789 PSIG
12/22/92 RINCON 137 E				MID PERF. 6712'	1120	205	6765'	0'	1120 PSIG
7/15/93 RINCON 126 M				MID PERF. 5224'	780	155	4898'	326'	921 PSIG
12/4/92 RINCON 168 E				MID PERF. 6608'	1020	203	6415'	193'	1104 PSIG

AVERAGE TUBING LENGTH:

REMARKS:

RINCON UNIT NO. 127 M

After a 7 day SI period:

$$\text{Mesaverde BHP} = 716 \text{ psi @ } 5080'$$

$$\text{Dakota BHP} = 1356 \text{ psi @ } 7523'$$

$$\text{Gas Gradient} = 0.031 \text{ psi/ft}$$

Adjusting to a common datum of 5080':

$$\text{Mesaverde BHP} = 716 \text{ psi}$$

$$\text{Dakota BHP} = 1356 - [(0.031)(7523 - 5080)] = 1280 \text{ psi}$$

Therefore the reservoir pressures fall within the 50% requirement.



1115 FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-5622

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



1 FARMINGTON AVENUE - FARMINGTON, 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

RINCON UNIT NO. 127 M

C-116 ADJUSTMENT

BASIN DAKOTA

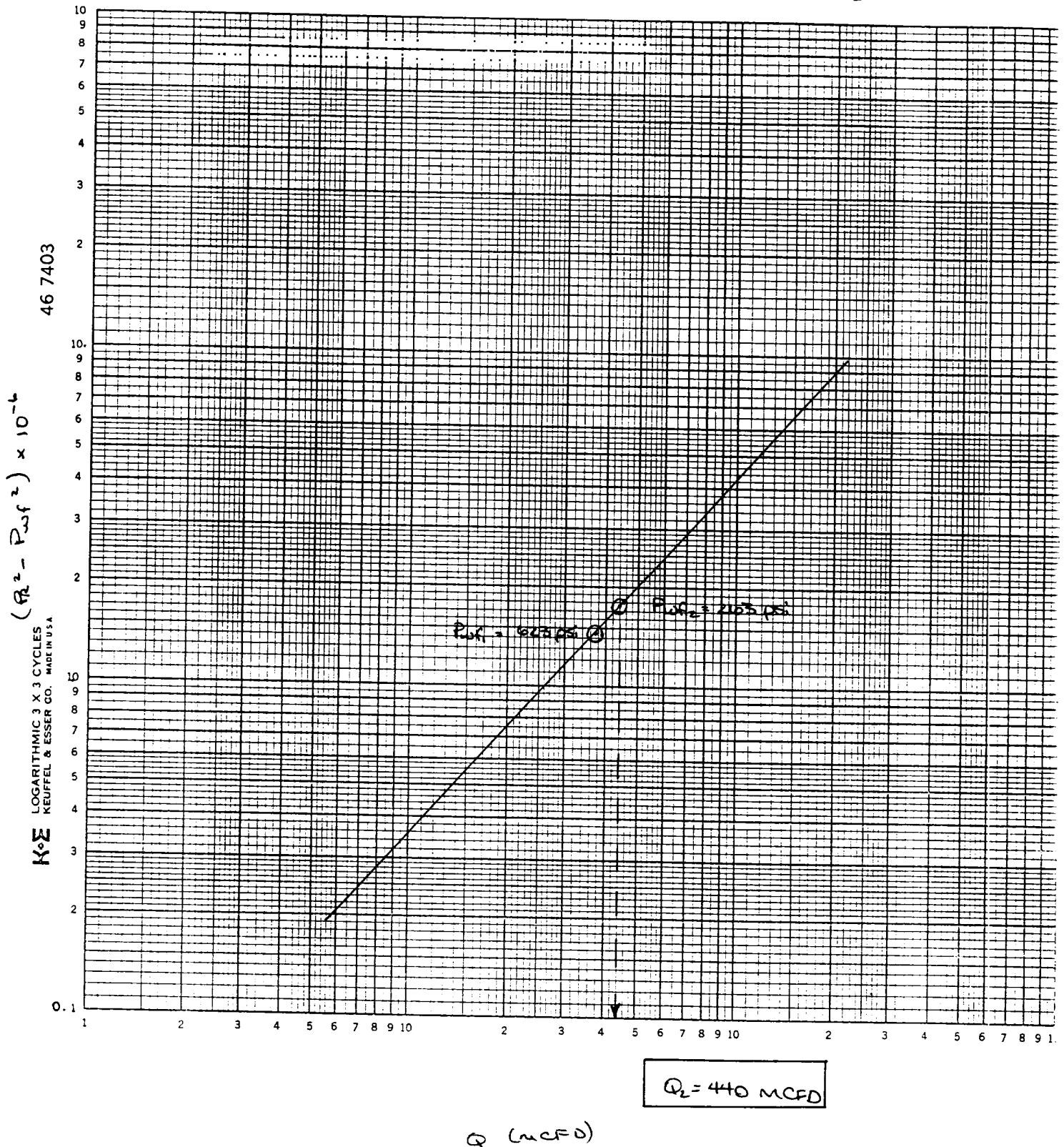
$n = 0.75$

$P_R = 1356 \text{ psi @ } 7523'$

$P_{wf1} = 623 \text{ psi @ } 7523'$

$Q_1 = 366 \text{ MCFD}$

$P_{wf2} = 263 \text{ psi @ } 7523'$



RINCON UNIT NO. 127 M
ALLOCATION FORMULA
(BASED ON ADJUSTED C-116)

<u>GAS PRODUCTION:</u>	Mesaverde Rate	88 MCFD
	Dakota Rate	<u>440</u> MCFD
	Total Rate	<u>528</u> MCFD

Therefore,	Mesaverde	17%
	Dakota	83%

<u>OIL PRODUCTION:</u>	Mesaverde Rate	0 BOPD
	Dakota Rate	<u>0</u> BOPD
	Total Rate	<u>0</u> BOPD

Therefore,	Mesaverde	50%
	Dakota	50%

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

UNOCAL 76

August 4, 1993

Farmington District

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

Dear Sirs:

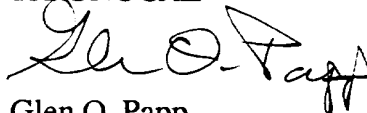
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Rincon Unit No. 127 M
850' FNL, 800' FWL
Section 28, T27N, R6W
Rio Arriba County, New Mexico

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

UNOCAL 76

August 4, 1993

Farmington District

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

Dear Sirs:

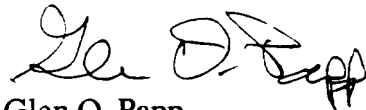
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Rio Arriba County, New Mexico

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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

UNOCAL 76

August 4, 1993

Farmington District

Caulkins Oil Company
310 North First
Bloomfield, New Mexico 87413

Dear Sirs:

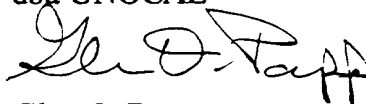
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Union Oil Company of California
dba UNOCAL



Glen O. Papp
Field Superintendent

GOP/DLD/df