

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



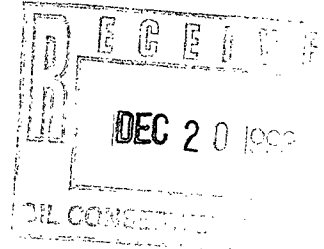
December 17, 1993

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			19	20
24				
25	30	29		
RINCON UNIT #149				
36	31	32		

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 <input checked="" type="checkbox"/> Special <input type="checkbox"/>								
3300 N. Butler, Suite 200, Farmington, NM 87401		Scheduled <input type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION U S T R	DATE OF TEST	CHOKE SIZE	TBQ. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	WATER BRLS.	PROD. DURING TEST GRAV. OIL	OIL BRLS.	GAS M.C.F.	GAS - OIL RATIO CU FT/BBL.
Rincon Unit	149	N 30 27N 6W	07/93	F 64/64"	115		24	-0-	-0-	0.25	19	--
Blanco Mesaverde			07/93	F 64/64"	114		24	-0-				588,000
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.

(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

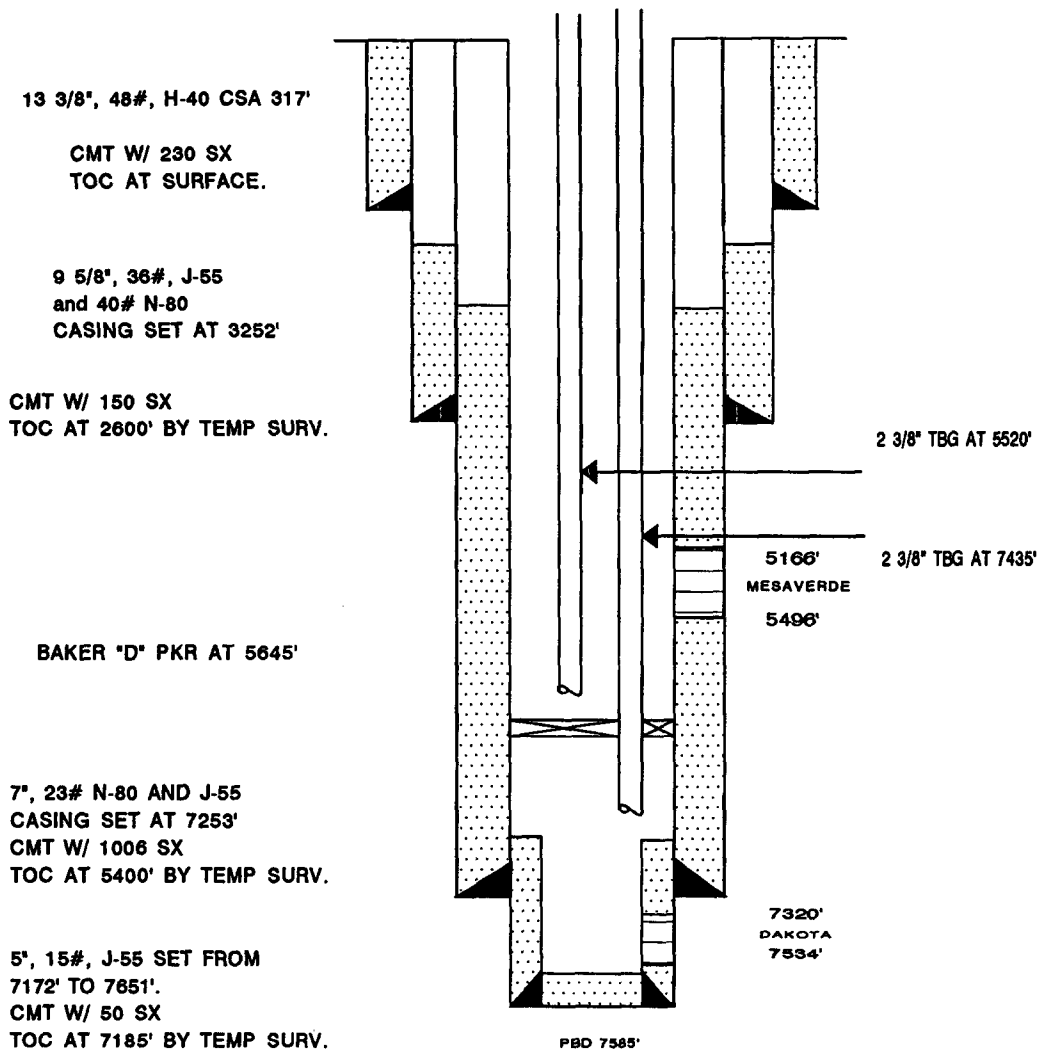
(505) 326-7600

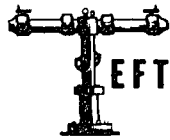
Date

Telephone No.

RINCON UNIT #149

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





EFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

Page 18 of 19
File 2-25399-FL&P

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

700
650
600
550
500
450
400
350
300

0 1500 3000 4500 6000 7500 9000 10500
DEPTH: FEET

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 MESA VERDE 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 <u></u> ft. % Oil <u></u> 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:

Mesaverde BHP = 471 psi @ 5331'

Dakota BHP = 548 psi @ 7400'

Gas Gradient = 0.013 psi/ft

Adjusting to a common datum of 5331':

Mesaverde BHP = 471 psi

Dakota BHP = $548 - [(0.013)(7400 - 5331)] = 521$ 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) 541-5287

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

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

METER NUMBER 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 79978
PHONE: (915) 541-5287

DATE 6/08/92

CHROMATOGRAPHIC GAS ANALYSIS REPORT

MAILEE
94100

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

METER NUMBER 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

GAS PRODUCTION:

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

Therefore,

Mesaverde	11%
Dakota	89%

OIL PRODUCTION:

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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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:

Rincon Unit No. 149
1100' FSL, 1750' FWL
Section 30, 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

A handwritten signature in dark ink that reads "Glen O. Papp" followed by a small mark that looks like "20".

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
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December 17, 1993

Farmington District

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

Dear Sirs:

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Sincerely,

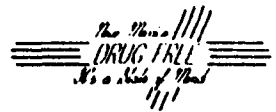
Union Oil Company of California
dba UNOCAL

Glen O. Papp
Field Superintendent

GOP/DLD/df



STATE OF NEW MEXICO



ENERGY, MINERALS and NATURAL RESOURCES DIVISION

RECEIVED

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

BRUCE KING
GOVERNOR

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 NSL _____
Proposed WFX _____
Proposed NSP _____

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

Gentlemen:

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

for the Unocal Runa Unit #149
OPERATOR 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 3" casing
and the perf. depths is not clearly answered. However,
MV treating pressures and past BIT Tests don't indicate
a problem.

Yours truly,

[Signature]