

BRUCE KING GOVERNOR ANITA LOCKWOOD CABINET SECRETARY

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



PCST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FEINEW MEXICO 87504 -505) 827-5800

ADMINISTRATIVE ORDER DHC-915

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

Attention: Glen O. Papp

RECEIVED

OIL CON. DIV.

Rincon Unit Well No. 125-M

Unit F, Section 26, 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	56%
Basin Dakota Pool	Oil	50%	Gas	44%

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Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.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

SEAL

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	: <u>7-27-93</u>	Mr. France Cataraca
P.O.	Conservation Division Box 2088 a Fe, NM 87504-2088	
RE:	Proposed MC Proposed NSL Proposed WFX Proposed NSP	Proposed DHC Proposed SWD Proposed PMX Proposed DD
Gent	lemen:	
I ha	ve examined the applicatio	n received on 86-6-93
		RINCON C. #125/
UL-S	- 12 2711-0641 and	my recommendations are as follows:
14	a fine	
	/	
Your	s truly,	
	and Barel	

UNOCAL 76

August 5, 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 AUG-61993
OIL CON. DIV

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. 125M 1800' FNL, 1700' FWL Section 26, 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

Glen O. Papp

Field Superintendent

Attachments

GOP/DLD/df



OFFSET LEASE OWNERSHIP

R 6 W

EL PASO EL PASO SF079365		EL PASO SF079367B	E290.28 E290 6 E290 28 E290.28 E290.36 E290
23	RINCON UNIT #125M	26	3547 3547 35
22	RINCON	27	SF079210 3547



Revised 1/1/89 Form C-116

Energy, Minerals and Natural Resources Department State of New Mexico

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III DISTRICT II

P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

DISTRICT I

GAS - OIL RATIO TEST

11 Company of California Blanco Mesaverde/Basin Dakota Type OF Type	Operator						Pool							20.00				
Type Of Scheduled Sutler, Suite 200, Farmington, NM 87401 Test(X) Scheduled Sulfer Sul	Union Oil Company of Cal	ifornia	ا			Blan	co Mesav	verd	e/Basir) Dakot				Rio A	rriba			
Butler, Suite 200, Farmington, NM 87401 TEST-(X) Schooled Suite State Suite	Address							TYPE	<u>გ</u>						00717			Ĺ
LOCATION DATE OF 2	3300 N. Butler, Suite 20	9. Farn	fingto	III. III	Ì	101		TEST	(X)	Schedul		J	Completio		0,	Special [П	
Unit 125M F 26 27N 6W TEST F SIZE PRESS ARE JUNIT 125M F 26 27N 6W 12/10/92 F 14/64" 370 Dakota		WELL		LOCAT	NQ.		DATEOF	SN.		É	DAILY	LENGTH	L	ROD. DUR	ING TEST		GAS - OIL	1.
Unit 125M F 26 27N 6W 12/10/92 F 14/64" 370 Dakota 12/18/92 F 15/64" 270	LEASE NAME	Ŏ.	ם	တ	-	Œ	TEST	TATS		PRESS		FEST	WATE	GRAV.	OIL	<u> </u>		
Dakota 12/10/92 F 14/64" 370 Dakota 12/18/92 F 15/64" 270	Rincon Unit	125M	ř			A.									 		+	į
Dakota 12/18/92 F 15/64" 270	Blanco Mesaverde						2/10/92		14/64"			24	-0-		-0-	333	1	
	Basin Dakota						2/18/92	ĵ u	15/64"			24	15		0	278		
	Instructions:										- Z	ereby ce	rtify tha	it the abo	ove info	rmation	is true and	<u> </u>

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.)

Signature

complete to the best of my knowledge and belief.

Glen O. Papp Printed name and title

(505)326-7600 August 5, 1993

Telephone No.

Date

RINCO! 'NIT NO. 125-M 1800' FNL,170, WL SEC 26 T27N R6W RIO ARRIBA COUNTY, NM

12 1/4" Hole KB DATUM = 13' ABOVE G.L. **GROUND ELEVATION = 6674'** 8-5/8" 24# K-55 @ 368' Cmt'd w/ 250 SX - CIRC To Surface DV TOOL @ 3624' 7-7/8" Hole Cmt'd Stage #3 w/ 645 sxs- Circ To Surface TOC @ 4330' by Wireline Survey UPPER MESAVERDE 4990-5004', 5014-50', 5062-70' 5076-5100' w/ 4 SPF "XO" Sliding Sleeve LOWER MESAVERDE @ 5597 5298-5314', 5472-90', 5520-64' w/ 4 SPF Gulberson Uni VI pkr @ 5609' 5720' Perforations to Cmt Squeeze DV TOOL @ 6038' Cmt'd Stage #2 w/300 sxs TUBING DETAIL 246 jts 2-3/8" EUE 8rd J-55 @ 7788' T.O.C @ 7140' by Wireline Surveys **DAKOTA** 7520-32', 7544-54', 7606-16' 7642-68', 7694-7708', 7714-26', 7750-84', w/ 4 SPF 5-1/2" 17# N-80, J-55 PBTD = 7810' @ 7857' Cmt'd Stage 1 w/ 330 sxs TD @ 7877'

B & R SERVICE, INC. P. O. Box 1048

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

Company <u>Unocal</u>	Lease Rincon	Well 125-M
County Rio Arriba	StateN.Mex.	Date 12-10-92
Shut-In	Zero Point K.B.	Tbg. Pressure 788
Casing Pressure	Tbg. Depth	Casing Perf
Max. Temp.	Fluid Level6075	
DEPTH	PSIG	GRADIENT
0	790	
1000	808	.018
2000	833	.025
3000	858	.025
4000	883	.025
5000	909	.026
6000	952	.043
7000	1325	•373
7200	1410	.425
7400	1498	.440
7652	1607	.433

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

FLUID LEVEL SURVEY

COMPANY: UNOCAL.C	UNOCAL CORPORATION				3	CCUNTY:	RIO ARRIBA	IBA.	
FIELD: RINCON			DATE:				STATE: N. MEX.	N. MEX.	
					CASING	STNIOL	FEET	FLUID	PRESSURE
LEASE AND WELL NO.	LOCATION	TIME	ELEV.	DATUM	PRESSURE	10	10	ABCVE	AT
					PS 16	FLUID	FLUID	DATUM	DATUM .
				MID PERF.					
10/30/92 RINCON 158 M				5039	540	110	3432	1001	Pica 1821
				MID PERF.				-	
11/01/92 RINCON 151 M				5211	750	130	4108'	1103	1228 4519
				MID PERF.					
11/04/92 RINCON 171 M				4883	340	152	4158'	.571	394 1216
				MID PERF					
12/17/92 RINCON 184 M				5127	965	105	:30ES	1819	bich cell
				MID PERF.			•	•	
12/19/92 RINCON 136 E				4845	009	118	3729	1116	1134 1514
				MID PERF.			•		
12/19/92 RINCON 127 M				5080°	610	153	4835	. 542	716 PSIG
				MID PERF.		,		•	č
12/22/92 RINCON 125 M				, 1,129	480	154	4882	395	5184 481
			-	WID PERCE.		, 1	4	_	7.00
12/22/92 RINCON 137 E				'211c)	1120	502	676S	o	bic 1 9711
				THE PERSE.	•		-	-	21.50
7/15/93 RINCON 126 M		-		, hzzs	780	155	4848	.926	121
				MID PERF.					
12/4/92 RINCON 168 E				(6000)	1020	203	SINO	193	1104 4519
						-			

AVERAGE TUBING LENGTH: REMARKS:

RINCON UNIT NO. 125 M

After a 7 day SI period:

Mesaverde BHP = 789 psi @ 5277'

Dakota BHP = 1607 psi @ 7652'

Gas Gradient = 0.025 psi/ft

Adjusting to a common datum of 5277':

Mesaverde BHP = 789 psi

Dakota BHP = 1607 - [(0.025)(7652 - 5277)] = 1548 psi

Therefore the reservoir pressures fall within the 50% requirement.



WELL ANALYSIS COMPARISON

LEASE: RINCON 125M DECEMBER 21, 1992

DATE: 12/10/92 12/17/92

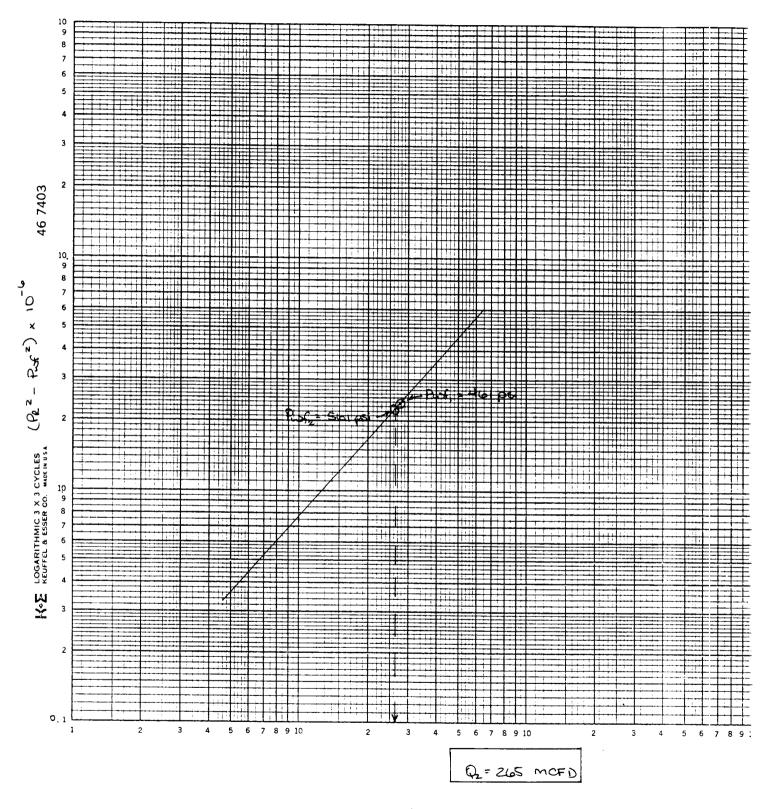
NO.: 20041 20045 MESAVERDE DAKOTA

	MOLE %	MOLE %
NITROGEN CO2 METHANE ETHANE ETHANE PROPANE I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE+	0.436 1.044 82.256 9.097 4.333 0.768 1.073 0.381 0.265 0.347	1.235 87.142 6.414 2.354 0.588 0.757 0.442
BTU'S	1211.2	1159.8
GPM	4.6039	3.2976
SPEC GRAV	0.7023	0.6706

RINCON UNIT NO. 125 M
C-116 ADJUSTMENT

n=0.75
PR=1607 ps: @ 7652'
Puf=461 ps: @ 7652'
Q1=278 MCFD
Puf=561 ps: @ 7652'





0 (maxo)

RINCON UNIT NO. 125 M ALLOCATION FORMULA

GAS PRODUCTION: Mesaverde Rate 333 MCFD

Dakota Rate <u>265</u> MCFD

Total Rate <u>598</u> MCFD

Therefore, Mesaverde 56%

Dakota 44%

OIL PRODUCTION: Mesaverde Rate 0 BOPD

Dakota Rate <u>0</u> BOPD

Total Rate <u>0</u> BOPD

Therefore, Mesaverde 50%

Dakota 50%

UNOCAL 76

August 5, 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. 125 M 1800' FNL, 1700' FWL Section 26, 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

UNOCAL 76

August 5, 1993

Farmington District

Caulkins Oil Company 310 North First Bloomfield, New Mexico 87413

Dear Sirs:

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Sincerely,

Union Oil Company of California dba UNOCAL

Glen O. Papp

UNOCAL 76

August 5, 1993

Farmington District

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

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Sincerely,

Union Oil Company of California dba UNOCAL

Glen O. Papp