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August 5, 1993

CERTIFIED RETURN RECEIPT REQUESTED

Farmington District

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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. 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

Taff Glen O. Papp

Field Superintendent

Attachments



OFFSET LEASE OWNERSHIP

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	EL PASO EL PASO SF079365		EL PASO SF079367B	S N	E290-28 E290-6 E290-28 E290-28	E290-36
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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

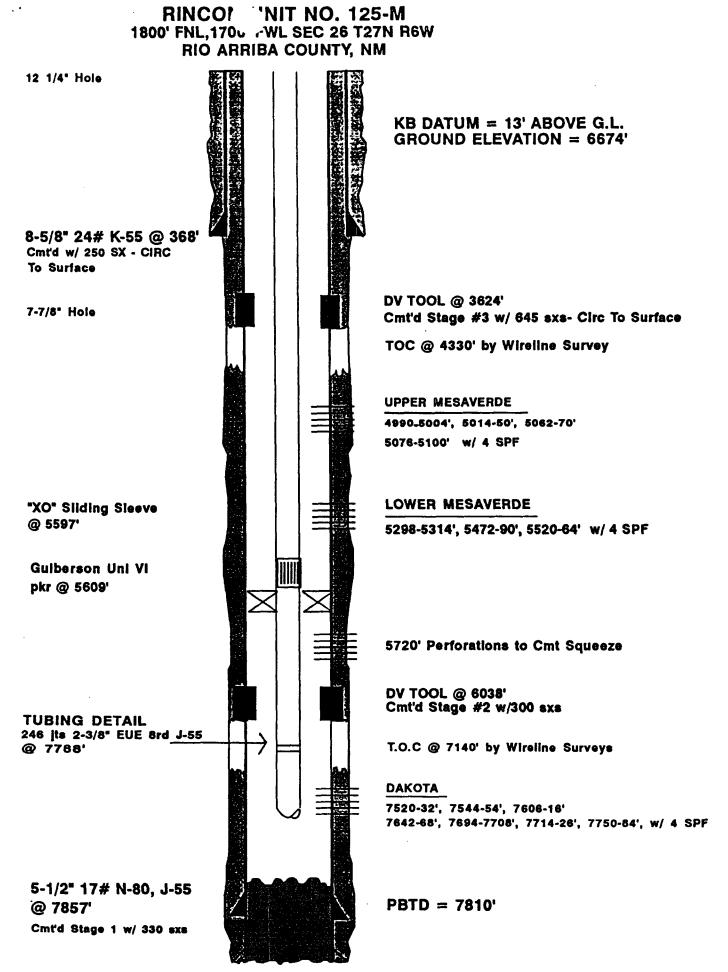
OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

District Office. DISTRICT J 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

Submit 2 copies to Appropriate

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Rincon Unit	125M	Þ	26	27N	M9												1
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Basin Dakota						12/18/92	P	-15/64"	270		24	15		- -	278	ļ	
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Instructions:											rreby cer plete to ti	tify that he best o	I hereby certify that the above information is complete to the best of mystonowledge and belief.	ove infor wledge a	rmation nd belief	is true and	
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	shall be p	roduce	d at a is enc	rate no	t exce d to tai	exceeding the top unit allowable for the pool in to take advantage of this 25 nervent tolerance in	it all this	owable for	r the pool		X		D T	A A			1
order that well can be assigned increased allowables when authorized by the Division.	allowable	s whe	auth auth	onized	by the	Division.					Signature)	I				
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.	ACF mea	inred a	tta pr	essure	base (of 15.025 psia a	nd a	temperatu	re of 60°		Glen 0. Papp Printed name and title	Papp and title		<u>ield S</u>	uperin	<u>Field Superintendent</u>	
Report casing pressure in lieu of tubing pressure for any well producing through casing.	ing pressu	ITE FOR	any w	ell pro	ducing	through casing.				Au Au	August 5	5, 1993		(505)326-7600	-7600		1
			•							Date					Teleph	Telephone No.	1

(See Rule 301, Rule 1116 & appropriate pool rules.)



TD @ 7877'

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

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

CompanyUnocal	Lease Rincon	Well 125-M
County <u>Rio Arriba</u>	State <u>N.Mex.</u>	Date 12-10-92
Shut-In	Zero Point <u>K.B.</u>	Tbg. Pressure
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. BOY 1048 FARMINGTON, N.M.

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FLUID LEVEL SURVEY

Continue Time ELEV. Datum RESSURE JOINTS FEET 92 RINCON 158 No.0 PEGS 540 110 732 92 RINCON 151 No.0 PEGS 540 110 3432 92 RINCON 151 No.0 PEGF 5211 750 130 4108' 92 RINCON 151 No.0 PEGF 5211 750 130 4108' 92 RINCON 151 No.0 PEGF 750 130 4108' 92 RINCON 151 No.0 PEGF 750 130 4108' 10 PEGF 5211 965 105 3-508' 11 No.0 PEGF 965 105 3-508' 12 RINCON 127 No.0 PEGF 600 118 3729' 2 RINCON 127 Mo.0 PEGF 610 153 4835' 2 RINCON 127 Mo.0 PEGF 610 154 4835' 2 RINCON 125 No.0 PEGF	MD WELL No. LOCATION TIME ELEV. DATUM PRESSUR TO TO TO ABEVE RINCON 15B LOCATION TIME ELEV. DATUM PRESSUR TO TO ABEVE RINCON 151 Mo No PREF 540 110 3432.1 16071 RINCON 151 Mo PREF 53039 540 110 3432.2 16071 RINCON 151 Mo PREF 53039 340 152 4168' 1005 RINCON 151 Mo PREF 965 105 3724' 1103' RINCON 151 Mo PREF 965 105 3724' 1114' RINCON 136 E Mo PREF 965 105 3724' 1114' RINCON 126 Mo PREF 1020 153 4835' 245' 245' RINCON 126 Mo PREF 1120 205 154 4815' 352' </th <th>COMPANY: UNOCAL</th> <th>AL_CORF</th> <th>UNOCAL CORPORATION</th> <th></th> <th>DATE:</th> <th></th> <th>0</th> <th>CCUNTY :</th> <th>RIU AR</th> <th>RIBA. N. MEX.</th> <th></th>	COMPANY: UNOCAL	AL_CORF	UNOCAL CORPORATION		DATE:		0	CCUNTY :	RIU AR	RIBA. N. MEX.	
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RINCON 168 E	RINCON 168 E 6415 143		$\left \right $				MD PERF.			-		
			ы				66000	1020	203	SILD	145	

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.



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WELL ANALYSIS COMPARISON

LEASE:	RINCON	125M
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DECEMBER 21, 1992

DATE:	12/10/92 1	2/17/92
N0.:	20041 MESAVERDE	20045 DAKOTA
	MOLE %	MOLE %
NITROGEN CO2 METHANE ETHANE PROPANE I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE+	1.044 82.256 9.097 4.333 0.768 1.073 0.381 0.265	87.142 6.414 2.354 0.588 0.757
BTU'S	1211.2	1159.8
GPM	4.6039	3.2976
SPEC GRAV	0.7023	0.6706

RINCON UNIT NO. 125 M

n= 0.75

Pr= 1607 ps; @ 7652'

Pwf= 561 psi @ 7652'

Puf,= 461 psi @ 7652'

Q1 = 278 MCFD

C-116 ADJUSTMENT

BASIN DAKOTA

Q (MCFD)

RINCON UNIT NO. 125 M ALLOCATION FORMULA

•

GAS PRODUCTION:	Mesaverde Rat	æ	333	MCFD
	Dakota Rate		<u>265</u>	MCFD
	Total R	ate	<u>_598</u>]	MCFD
Therefore,	Mesaverde	56%		
	Dakota	44%		
OIL PRODUCTION:	Mesaverde Rat	te	0	BOPD
	Dakota Rate		_0	BOPD
	Total R	ate	<u>0</u>	BOPD
Therefore,	Mesaverde	50%		
	Dakota	50%		

UNOCAL 70

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 Field Superintendent

UNOCAL 76

August 5, 1993

Farmington District

Caulkins Oil Company 310 North First Bloomfield, New Mexico 87413

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 *I*/Field Superintendent

UNOCAL⁷⁰

August 5, 1993

Farmington District

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

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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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