

**Ernie Busch**

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**From:** Ernie Busch  
**To:** Mike Stogner  
**Subject:** UNOCAL (NSL)  
**Date:** Monday, February 05, 1996 1:39PM  
**Priority:** High

RINCON UNIT #186M  
1670' FSL; 1240' FWL  
L-33-27N-07W  
RECOMMEND: APPROVAL

WELL DELIVERABILITY TEST REPORT FOR 19 95Form G 122-A  
Revised 10-1-78

POOL NAME BLANCO	POOL SLOPE n = .75	FORMATION MESA VERDE	COUNTY RIO ARRIBA
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14484

COMPANY UNION OIL COMPANY OF CALIFORNIA DBA UNOCAL			WELL NAME AND NUMBER RINCON UNIT #125M COMG		
UNIT LETTER F	SECTION 26	TOWN SHIP 27N	RANGE 6W	PURCHASING PIPELINE EL PASO NATURAL GAS COMPANY	
CASING O.D. - INCHES 5.500	CASING I.D. - INCHES 4.950	SET AT DEPTH - FEET 7857'	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP - TUBING PERF. - FEET 7788'
GAS PAY ZONE FROM 7520' TO 7784'		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY .677	GRAVITY & LENGTH 5272'
DATE OF FLOW TEST FROM AUGUST 16 TO AUGUST 22			DATE SHUT-IN PRESSURE MEASURED OCTOBER 10, 1995		

## PRESSURE DATA - ALL PRESSURE IN PSIA

(a) Flowing Casing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWI)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (integr.)
342	132	132	130	2	0	129
(h) Corrected Meter Pressure (g + e)	(i) Avg Wellhead Press $P_w = (h + i)$	(j) Shut-in Casing Pressure (DWI)	(k) Shut-in Tubing Pressure (DWI)	(l) $P_0$ = higher value of (j) or (k)	(m) Del Pressure $P_u = \frac{40}{151} P_w$	(n) Separator or Dehydrator Pr (DWI) for critical flow only
131	131	377	207	377	151	

## FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\frac{\text{Item c}}{\text{Item d}}$	Corrected Volume
169	1.0154	1.0077	170 MCF/D

## WORKING PRESSURE CALCULATION

$(1 - e^{-S})$	$(F Q_m)^2 (1000)$	$R^2 = (1 - e^{-S}) (F Q_m)^2 (1000)$	$P_i^2$	$P_w^2 = P_i^2 + R^2$	$P_u = \frac{A}{V} P_w^2$
.318	2555	812	17161	17973	134

## DELIVERABILITY CALCULATION

$U = Q \left[ \frac{P_i^2 - P_w^2}{P_i^2 - P_u^2} \right]^n$	170	$\left[ \frac{119328}{124156} \right]^n$	$.9611$	$.9707$	165 MCF/D
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## REMARKS:

INITIAL AND ANNUAL-COMMINGLED 10/93 - 3RD YEAR  
DOWNHOLE COMMINGLED BY NMOCD ORDER #DHC-915  
MESA VERDE 56% = 92 MCF/D  
DAKOTA 44% = 73 MCF/D

**RECEIVED**  
DEC 15 1995  
OIL CONL DIV  
DIST. 3

## SUMMARY

Item h	131	Psia
P <sub>w</sub>	377	Psia
Q	170	MCF/d
P <sub>u</sub>	134	Psia
P <sub>0</sub>	151	Psia
D	92	MCF/D

Company UNION OIL COMPANY OF CALIFORNIA DBA UNOCAL  
By R.L. Caine  
Title Production Foreman  
Witnessed By \_\_\_\_\_  
Company \_\_\_\_\_  
API #30-039-25181

RLC/sk1

Se

**Unocal Oil & Gas Division**  
Unocal Corporation  
913 West Broadway, P.O. Box 850  
Bloomfield, New Mexico 87413  
Telephone (505) 632-1811



January 31, 1996

New Mexico Oil Conservation Division  
Attn: William J. LeMay  
P.O. Box 2088  
Santa Fe, New Mexico 87504

**RECEIVED**  
FEB - 2 1996  
**OIL CON. DIV.**  
DIST. 3

RE: Request for NSL Order on Rincon Unit #186M MV/DK

Dear Mr. LeMay:

The subject well, Rincon Unit #186M, API #30-039-25406, UL N Sec. 33, T27N, R7W which was drilled in June of 1994, was previously approved to an unorthodox location by Administrative Order NSL-3389 for the Basin Dakota and the Largo Gallup. Unocal respectfully requests a nonstandard location exception to the Blanco Mesa Verde also. The Rincon Unit is solely operated by Unocal and it is farther than 790 feet from any outer boundary line therefore, there are no offset operators.

Your urgency with this matter would be greatly appreciated.

Union Oil Company of California dba Unocal  
Sincerely,

Brett Liggett  
Production Engineer

Attachments:

cc: Frank Chavez, Aztec NMOCD

BL/sl



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

May 5, 1994

Union Oil Company of California (UNOCAL)  
P.O. Box 2620  
Casper, WY 82602-2620

Attention: Jim Benson

*Administrative Order NSL-3389*

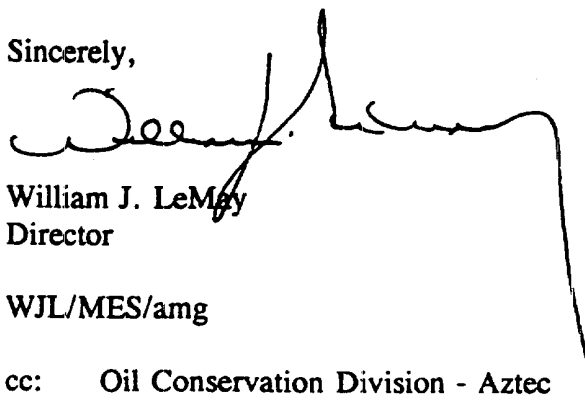
Dear Mr. Benson:

Reference is made to your application dated April 4, 1994 for an unorthodox gas well location for both the Basin-Dakota and Undesignated Largo-Gallup Pools for your proposed Rincon Unit Well No. 186M. Said well is to be drilled 1670 feet from the South line and 1240 feet from the West line (Unit L) of Section 33, Township 27 North, Range 7 West, NMPM Rio Arriba County, New Mexico.

The S/2 of said Section 33 is to be dedicated to said well forming a standard 320-acre gas spacing and proration unit for both pools.

By the authority granted me under the provisions of Rule 2(c) of the Special Rules and Regulations for the Basin-Dakota Pool, as promulgated by Division Order No. R-8170, as amended; the applicable rules governing the Largo-Gallup Pool under Division Order No. R-2462, as amended; and General Rule 104.F(1), the aforementioned unorthodox gas well location is hereby approved.

Sincerely,

  
William J. LeMay  
Director

WJL/MES/amg

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

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MAY 12 1994  
OIL CON. DIV.  
DIST. 3

PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Bravo Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

STATE OF NEW MEXICO  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Revised February 21, 1991  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

RECEIVED  
BLM MAIL ROOM

☒ AMENDED REPORT

95 SEP -8 PM 1:55

WELL LOCATION AND ACREAGE DEDICATION PLAT

AFI Number 30-039-25406	Pool Code 71599/73219	Basin Dakota/Blanco Mesaverde
Property Code 011510	Property Name RINCON UNIT	Well Number 186-M
OGRID No. 023708	Operator Name UNOCAL	Elevation 6752

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	27N	7W		1670	SOUTH	1240	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill Y	Consolidation Code U	Order No. Unitization
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	2641.65	S 89° 15' W	2641.65	17 OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
161.07	AC ±	162.15	AC ±	Signature Jim Benson
2641.32		2668.07		Printed Name Drilling Superintendent
E	N 89° 49' 54" E			Title September 5, 1995
2645.48		2640.80		Date
1240'				18 SURVEYOR CERTIFICATION
160.43		161.73		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
2641.32		2638.24		Date of Survey October 22, 1993
2641.90		2648.58		Signature and Seal of Professional Surveyor 9672
	N 0° 42' 18" E			Cecil B. Tullis
	N 0° 32' E			Certificate Number 9672
	N 89° 46' W			
	N 89° 03' W			