

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

BAC N/R  
1192



Monday, January 29, 1996

Certified Receipt No. Z 407 288 662

**New Mexico Oil Conservation Division**  
**Attn.: Mr. Frank Chavez**  
**1000 Rio Brazos Road**  
**Aztec, New Mexico 87410**

**CC:**  
**New Mexico Oil Conservation Division**  
**Attn.: Mr. William J. LeMay**  
**PO Box 2088**  
**Santa Fe, New Mexico 87504-2088**

Dear Mr. Chavez:

Union Oil Company of California d.b.a. UNOCAL requests approval to down-hole commingle hydrocarbon production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit well, Rio Arriba County, New Mexico.

<u>Well</u>	<u>Legal Location</u>
Rincon Unit 170	990' FSL, 790' FWL, S20, T27N, R6W

a UNOCAL operated well located on Federal acreage.

This well was drilled and completed, with 4-1/2" casing, in September, 1962 in the Dakota formation. The Dakota is currently producing 100 Mcfd gas and a trace of oil. UNOCAL proposes to perforate, stimulate with a hydraulic fracture and isolate and test (w/ a production packer and 2-3/8" tubing) oil, gas and water production from the Mesa Verde formation. If production from the Mesa Verde is deemed economical, the Mesa Verde would be downhole

commingled with the Dakota. Allocation factors will be calculated from the Mesa Verde test and the Dakota's historical production.

Mesa Verde reserves in this acreage would be developed most economically if this well were granted downhole commingle approval. Approval prior to completion is being sought because production casing size will not support running of dual production strings. Drilling a replacement well of larger casing size or a stand alone Mesa Verde well is not economical at this time.

One week shut-in surface pressures from off-set Mesa Verde wells were obtained in October, 1995 as follows-

<u>WELL</u>	<u>Location</u>	<u>SICP (psig)</u>
135A MV	NW, S29, T27N, R6W	200
108A MV	SE, S19, T27N, R6W	200
170 DK	SW, S20, T27N, R6W	570

UNOCAL is confident that production will not be wasted and the proposed method of completion will efficiently drain Dakota and Mesa Verde acreage around this wellbore. Royalty interests between zones are identical.

**Attachments:**

- 1) Current well bore schematic.
- 2) Oil and gas production curves.
- 3) Lease map showing well locations for offset pressure data and offset lease operators.
- 4) Letters to offset operators stating UNOCAL's proposal.

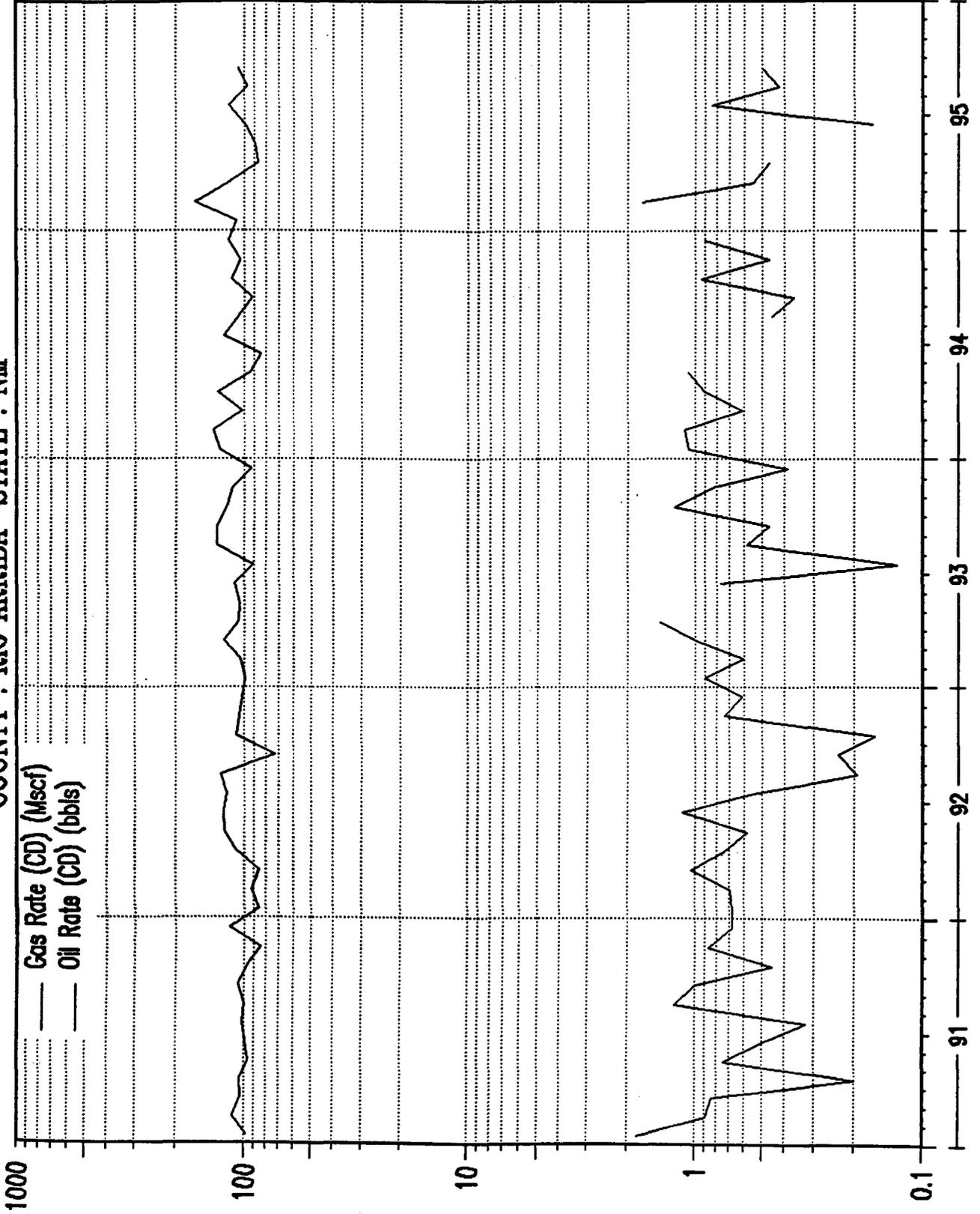
If you have any questions regarding this proposal please contact me at (505) 632 - 1811 #14.

Sincerely,

Union Oil Company of California  
d.b.a. UNOCAL

  
Brett H. Liggett  
Production Engineer

WELL: RINCON UNIT 170:DK  
SECTION : 20 TOWN : 27N RANGE : 06W  
COUNTY : RIO ARRIBA STATE : NM



# UNOCAL

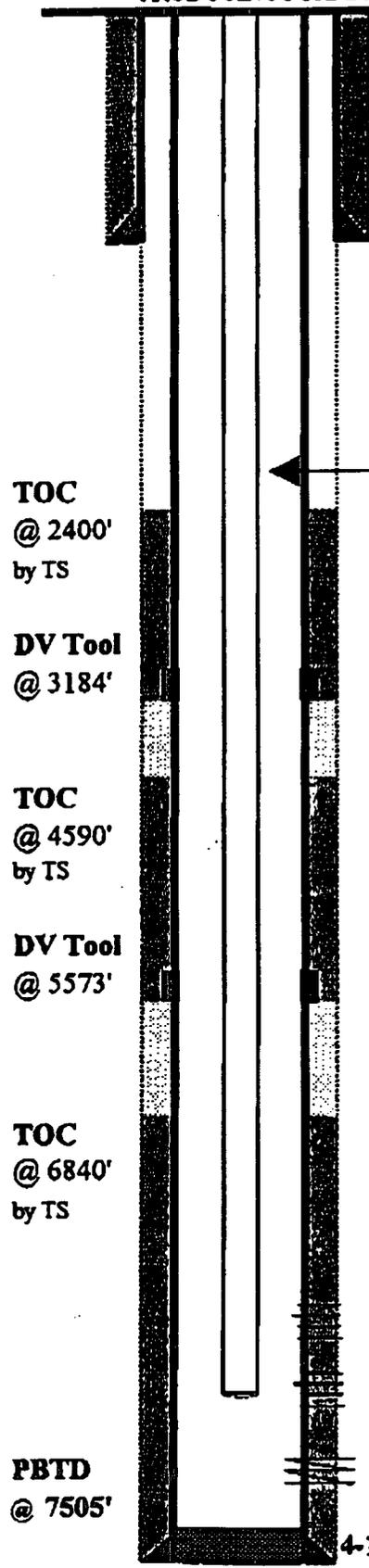
## ROCKY MOUNTAIN ASSET GROUP

3

WELL: RINCON UNIT #170  
LOCATION: 990' FSL 790' FWL Sec. 20 T27N R6W SW SW  
COUNTY: Rio Arriba STATE: NM  
PRODUCING FORMATION: Dakota

SPUD DATE: 7/27/62  
COMPL DATE: 9/25/62  
RECOMPL DATE: -----  
Elevation = 6513'  
KB = 12'  
Updated: 1/3/96  
By: H. Dahlgren

9-5/8", 32.3# H-40 @ 326'  
Cmt w/ 210 sxs, Circ. to Surface



246 Jts., 2-3/8" EUE 8rd, 4.7# J-55 FHD @ 7468'  
(9/14/62)  
30.66' 1 jt., 2 3/8" 4.7# J-55 EUE 8rd tbg  
3.45' Perf joint & SN  
7421.62' 245 jts., 2 3/8" 4.7# J-55 EUE 8rd tbg  
7455.73' Total  
12.00' BKDB  
7467.73' FHD

TOC  
@ 2400'  
by IS

DV Tool  
@ 3184'

TOC  
@ 4590'  
by IS

DV Tool  
@ 5573'

TOC  
@ 6840'  
by IS

PBTD  
@ 7505'

Dakota perms: 7282-7488  
7280 2 holes sqz. 35 sxs  
7282-86, 7296-7300, w/ 3 spf  
7350 2 holes sqz. 25 sxs  
7408-18, 7454-60, 7482-88 w/ 2 spf }  
Frac w/ 51,000 gal wtr, 60,000# sand }  
Sqz. 7526-34, 7546-50 w/ 75 sxs

DHC

4-1/2", 11.6 & 10.5#, J-55 @ 7561'  
TD = 7561' Cmt w/ 150 sxs 1st stg., 225 sxs 2nd stg., 210 sxs 3rd stg.

UNOCAL, RINCON UNIT, T27N R6W

1	2	3	4	5	6
12	11	10	9	8	7
13	14	15	16	17	18
24	23	22	21	20	19
25	26	27	28	29	30
36	35	34	33	32	31

108A

170

155A

155A

155F

OPERATOR:  
CAULKINS OIL CO.

OPERATOR:  
CAULKINS OIL CO.

UNIT BOUNDARY





# UNOCAL, RINCON UNIT, T27N R7W

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24 OPERATOR: MERIDIAN OIL CO.
30	29	28	27	26	25
31	32	33	34 124 	35	36  168E

UNIT BOUNDARY



# UNOCAL, RINCON UNIT, T26N R6W

6 ☀ 150E	5 OPERATOR: CALUMN OIL CO.	4 OPERATOR: CALUMN OIL CO.	3	2	1
7 OPERATOR: CALUMN OIL CO.	8	9	10	11	12
18 OPERATOR: CALUMN OIL CO.	17	16	15	14	13
19 OPERATOR: CALUMN OIL CO.	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

UNIT BOUNDARY

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



Monday, January 29, 1996

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

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, approval to down hole commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit well, Rio Arriba County, New Mexico.

<b>Well</b>	<b>Legal Location</b>
Rincon Unit 170	990' FSL, 790' FWL, S20, T27N, R6W

Attached for Bureau of Land Management review is this proposal. If there are any objections to the proposed action, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 532-1811 ext. 14.

Sincerely,

Union Oil Company of California  
d.b.a. UNOCAL

Brett H. Liggett  
Production Engineer



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
RECEIVED  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 324-3178 Fax (505) 324-3179

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

**ADMINISTRATIVE ORDER RECOMMENDATION**

Date: 2/2/96

New Mexico Oil Conservation Division  
PO Box 2088  
Santa Fe NM 87504-2088

RE: Proposed MC _____	Proposed DHC <u>X</u> _____
Proposed NSL _____	Proposed SWD _____
Proposed WFX _____	Proposed PMX _____
Proposed NSP _____	Proposed DD _____

Gentlemen:

I have examined the application received on 2/1/96  
for the Thruval Division Unit # 170

OPERATOR LEASE & WELL NUMBER  
M-20-27N-6W and my recommendations are as follows:

UL-S-T-R  
The pressure submitted with this application  
do not meet with the qualifications for administrative  
approval. Mr. Leggett will re-evaluate and possibly  
resubmit the application

Yours truly,

[Signature]