

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

PC N/R

RECEIVED  
UNOCAL OIL & GAS DIVISION

1995 NOV 15 PM 8 52



November 3, 1995

Certified Return Receipt No.: Z 407 288 653

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

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

Dear Mr. LeMay:

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

Well	Legal Location
164E	860' FNL, 1150' FWL, S2, T26N, R7W

The 164E was drilled in October of this year and completed in the Dakota and Gallup formations with 4-1/2" production casing and one string of 2-3/8" tubing with a packer isolating the Dakota and Gallup formations. In the planning of this well it was anticipated that the Gallup would flow up the 4-1/2" x 2-3/8" annulus. At the present time the GL zone is loaded up with oil and will not flow up the annulus. A production tests was conducted this week and pressure and fluid data gathered as follows.

<u>ZONE</u>	<u>**SITP</u>	<u>**SICP</u>	<u>FLUID ABOVE</u> <u>MID PERFS</u>	<u>*CALC</u> <u>BHP</u>	<u>GAS</u> <u>Mcf/d</u>
DK	1000 psig	-----	No Fluid	1190	200
GL	-----	350 psig	900 ft	690	0

\* DK - 190 psi static 0.70 gas gradient

GL- 60 psi static 0.70 gas gradient, 0.314 psi/ft oil gradient

Datum - GL midperfs @ 6600'

\*\*Seven day shut-in pressure.

This is a state lease and the ownership in the Dakota and Gallup are identical. Unocal is confident that cross-flow and production waste will not result between the Dakota and Gallup reservoirs in 164E while producing under down-hole commingled conditions.

Upon receipt of commingle authorization UNOCAL will isolate and flow test, up 2-3/8" tubing, the Gallup interval and submit to your office for approval a Dakota and Gallup allocation factor for oil, gas and water production.

An application to surface commingle condensate production from this well was submitted to your office in the last week of October. Please consider that request withdrawn.

If you have any questions in regard to this application, please contact me at (505) 632-1811 ext.14. Thank you for your consideration in this matter.

Sincerely,

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

  
Brett H. Liggett  
Production Engineer

UNOCAL, RINCON UNIT, RIO ARRIBA CNTY, NM  
WELL 164E, 860' FNL, 1150' FWL, S2, T26N, R7W

BKDB = 16'

8-5/8", 24#, K-55 @ 360'

GALLUP 6569' - 6626'

DAKOTA 7200' - 7263'

PBTD 7334' (TOP OF FC)

4-1/2", 11.6#, K-55 @ 7380'

B. H. LIGGETT 10/30/96

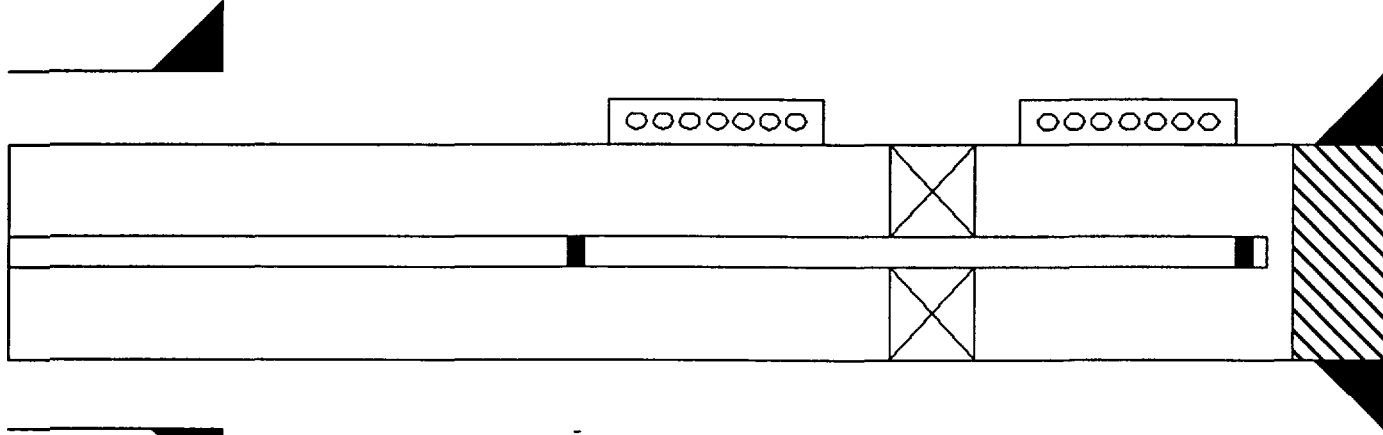
Present

4-1/2'X2-3/8' GUIBERSON XL ON-OFF TOOL @ 6561'

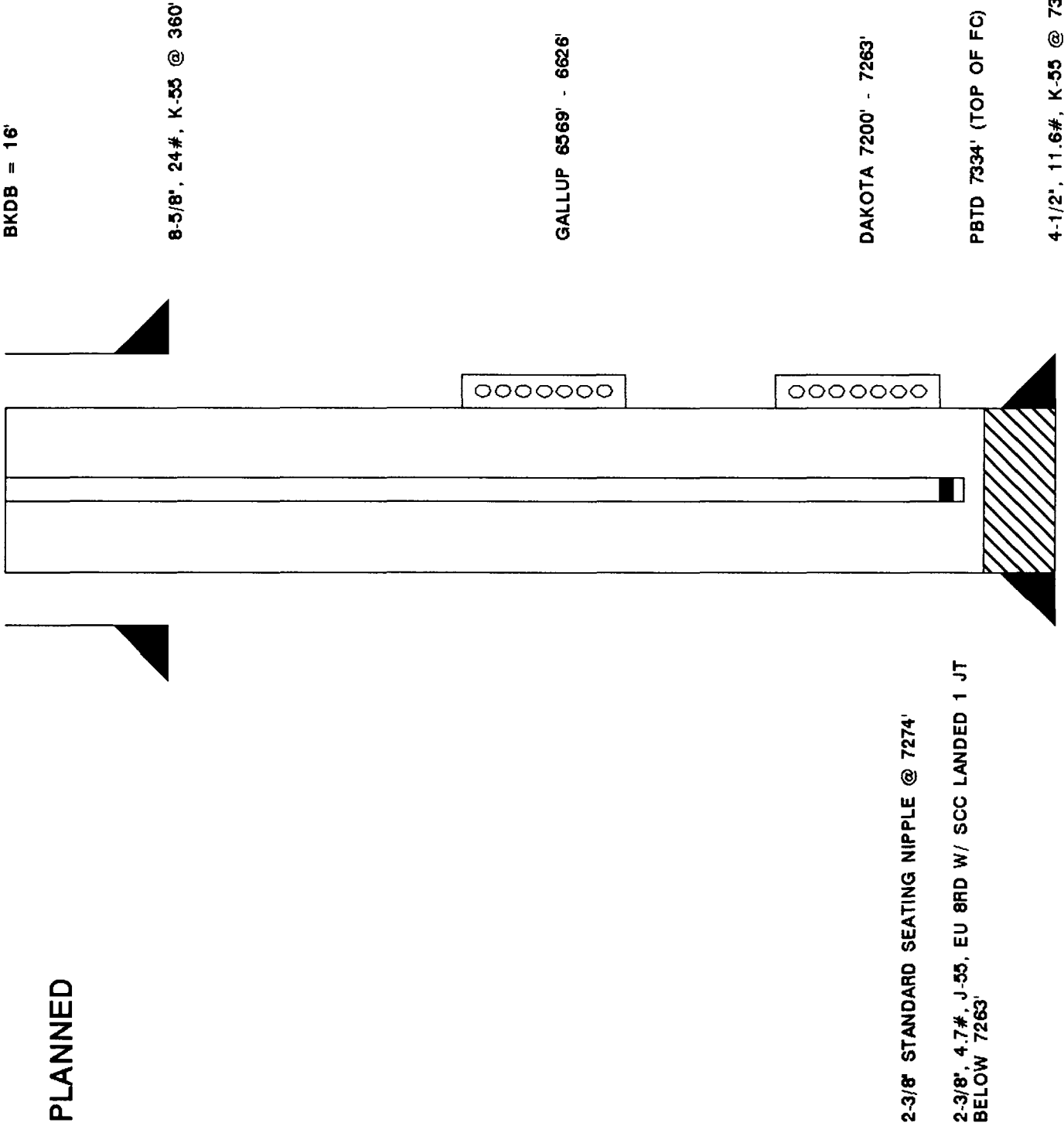
4-1/2'X2-3/8' GUIBERSON G-6 @ 6652' W/  
15 KIPS WT ON PKR

2-3/8' STANDARD SEATING NIPPLE @ 7274'


2-3/8", 4.7#, J-55, EU BRD W/ SCC @ 7306'



UNOCAL, RINCON UNIT, RIO ARRIBA CNTY, NM  
WELL 164E, 860' FNL, 1150' FWL, S2, T26N, R7W




# UNOCAL, RINCON UNIT, T26N R7W

6	5	4	3	2	1
	OPERATOR: LOUIS DRYDEN CORP	OPERATOR: CENTRAL RESOURCES INC. UNIVERSAL RESOURCES INC.	OPERATOR: CENTRAL RESOURCES INC. UNIVERSAL RESOURCES INC.	 <u>164E</u>	
7	8	9	10	11	12
			OPERATOR: CENTRAL RESOURCES INC. UNIVERSAL RESOURCES INC.		
18	17	16	15	14	13
			OPERATOR R: LOUIS DRYDEN CORP SNYDER OIL CORP	OPERATOR: CAULKINS OIL CO.	
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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 OPERATOR: AMOCO	27	26	25
31	32	33	34 229 E 	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



November 3, 1995

Central Resources Inc.  
1776 Lincoln Street #1010  
Denver, CO 80203

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, approval to downhole commingle production from the Largo Gallup and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

<b>Well</b>	<b>Legal Location</b>
164E	860' FNL, 1150' FWL, S2, T26N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

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

A handwritten signature in black ink, appearing to read "Brett H. Liggett".

Brett H. Liggett  
Production Engineer

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



November 3, 1995

Universal Resources Inc.  
1331 Central Street #300  
Denver, CO 80202

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, approval to downhole commingle production from the Largo Gallup and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

<u>Well</u>	<u>Legal Location</u>
164E	860' FNL, 1150' FWL, S2, T26N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

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

A handwritten signature in black ink, appearing to read "Brett H. Liggett".

Brett H. Liggett  
Production Engineer



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



November 3, 1995

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 downhole commingle production from the Largo Gallup and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico

<b>Well</b>	<b>Legal Location</b>
164E	860' FNL, 1150' FWL, S2, T26N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

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



Brett H. Liggett  
Production Engineer