

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-039-24875

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL		5. LEASE NUMBER SF-079302	
1b. TYPE OF WELL GAS		6. IF INDIAN, ALL. OR TRIBE NAME	
2. OPERATOR UNION OIL CO. OF CAL.		7. UNIT AGREEMENT NAME RINCON UNIT	
3. ADDRESS OF OPERATOR P O BOX 2074 FARMINGTON, NM, 87401 (505)-325-8786		8. FARM OR LEASE NAME RINCON Unit	
		9. WELL NO. 300	
4. LOCATION OF WELL 1750' FNL, 1850' FEL		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. 06, T. 26N, R. 6W	
14. DISTANCE FROM NEAREST TOWN 40 Miles SE of Bloomfield		12. COUNTY Rio Arriba	13. STATE New Mex.
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE 1705'	16. ACRES IN LEASE 160.48		17. ACRES ASSIGNED TO WELL 320 322.29
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING, COMPLETED OR APPLIED FOR ON THIS LEASE: 289'	19. PROPOSED DEPTH 3153'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (DF, FT, GR, ETC.) 6523' GL		22. APPROX. DATE WORK WILL BEGIN Summer 1990	
23. PROPOSED CASING AND CEMENTING PROGRAM SEE ATTACHED DRILLING PLAN			
24. AUTHORIZED BY: <i>[Signature]</i> 7-10-90 AGENT DATE			
PERMIT RECEIVED		APPROVAL DATE _____	
APPROVED BY AUG 13 1990		TITLE _____ DATE _____	
OIL CO.			
NOTE: THIS FORMAT IS ISSUED IN LIEU OF BLM FORM 3160-3			

ACTIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

NMOOD

400 07 1990
[Signature]
SUPERVISOR

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

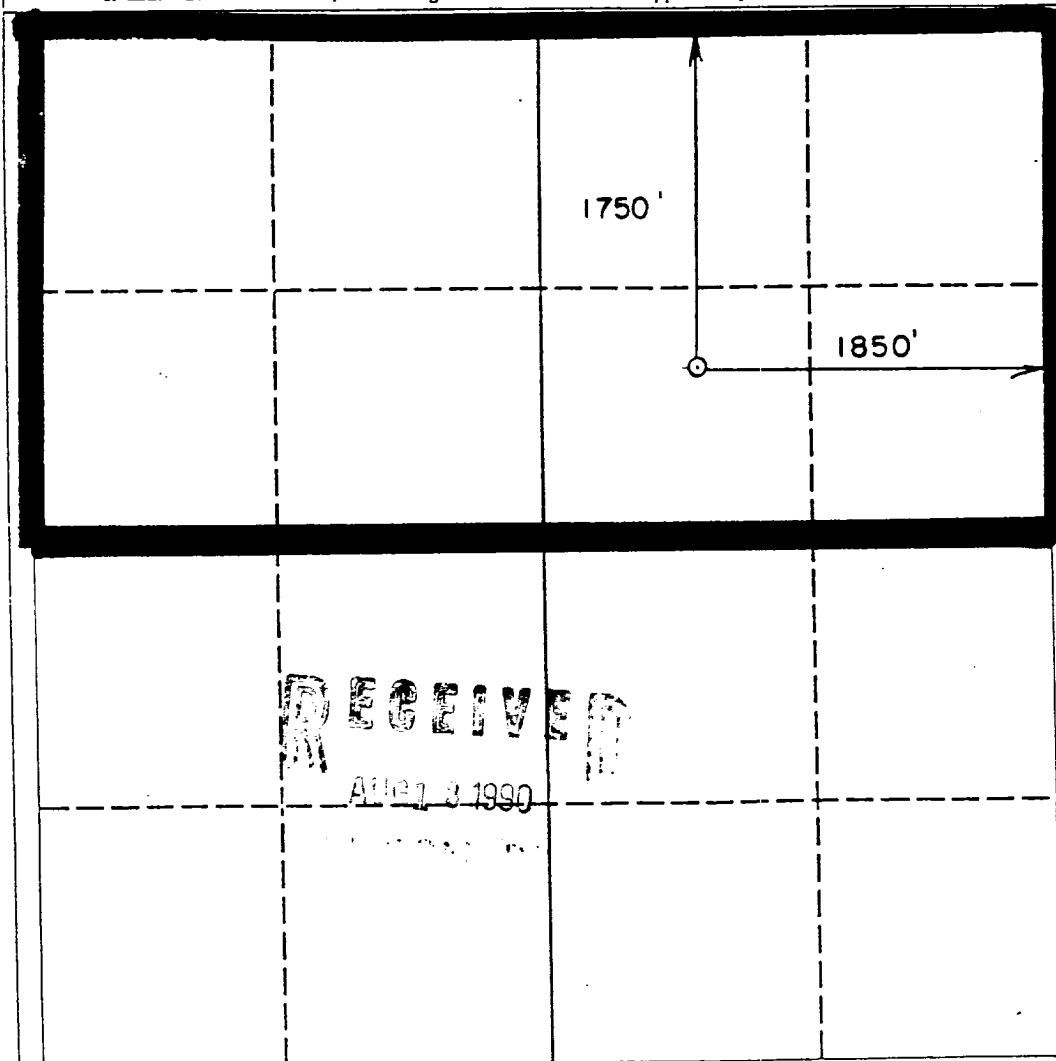
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator UNION OIL OF CALIFORNIA			Lease SF-079302		Well No. Rincon Unit 300
Unit Letter G	Section 6	Township 26 North	Range 6 West	County Rio Arriba	
Actual Footage Location of Well: 1750 feet from the North line and 1850 feet from the East line					
Ground level Elev. 6523'	Producing Formation Fruitland Coal		Pool Basin Fruitland Coal		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____
No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature *Chris Russell*
Printed Name **Chris Russell**
Position **Agent**
Company **UNOCAL**
Date **July 10, 1990**

SURVEYOR CERTIFICATION

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 knowledge and belief.

Date Surveyed **29 June 90**
Signature & Seal of Professional Surveyor *Charles H. Huddleston*
Certificate No. **6844**
Seal: **GENERAL SURVEYOR NEW MEXICO**

UNION OIL COMPANY OF CALIFORNIA
RINCON UNIT WELL NO. 300
SEC. 6, T.26N., R.6W.

8 POINT DRILLING PLAN

1. ESTIMATED FORMATION TOPS

<u>FORMATION NAME</u>	<u>DEPTH FROM GL</u>
Ojo Alamo	2018'
Kirtland Shale	2323'
Fruitland	2658'
Pictured Cliffs	3043'
Total Depth	3153'

RECEIVED

MAY 29 1991

OIL CON. DIV
DIST. 3

2. OIL, GAS, WATER, OR OTHER MINERAL BEARING ZONES

<u>EXPECTED GAS ZONES</u>	<u>DEPTH FROM GL</u>
Fruitland coal	2658' - 3043'
Pictured Cliffs	3043' - TD

<u>EXPECTED WATER ZONES</u>	<u>DEPTH FROM GL</u>
Ojo Alamo	2018'

Possible water zones will be protected by 8-5/8" surface casing and/or 4-1/2" production strings, both of which will be cemented to surface.

3. PRESSURE CONTROL BOP'S AND RELATED EQUIPMENT

Casing Head: 8-5/8" X 11" - 2000 psi W.P.

BOP Stack and Related Equipment: (See attachment #1)

One double-gate BOP with 4-1/2' pipe and blind rams.

One choke manifold with adjustable and positive chokes.

The BOP and choke manifold will be rated at 2000 psi,

RINCON UNIT WELL NO. 300
DRILLING PROGRAM - PAGE 2.

Testing Procedure:

The BOP and related equipment will be tested to at least the pressure required by the BLM at the time of approval.

BOP's will be operationally tested daily, and each test will be logged in the IADC Daily Drilling Report.

Blooie line:

The blooie line and related equipment will meet all requirements of Onshore Oil and Gas Order No. 2.

4. CASING AND CEMENTING PROGRAM

		<u>SURFACE CASING</u>		<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
<u>AGE</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>			
New	0-225'	12-1/4"	8-5/8"	20.0#	X-42	ST&C

		<u>INTERMEDIATE CASING</u>		<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>			
New	0-TD	7-7/8"	4-1/2"	10.5#	K-55	ST&C

MINIMUM SAFETY FACTORS

Collapse: 1.0

Tension: 1.8

Burst: 1.0

Cementing Program:

1. The 8-5/8" surface casing will be cemented to the surface with 175 sacks of class "B" cement with 2% CaCl₂ and 1/4# per sack flocele.
2. The 4-1/2" production casing will be cemented in 2 stages with the DV tool set at 2900'. 1st stage will be cemented with 85 sacks class "H" cement with .95% Flo-Lock-1, 18% Thrifty Lite, 3% KCL, 3# Hi-seal. 2nd stage will be cemented with 325 sacks pacesetter lite with 6% gel, 1/3# cello-seal. .8% CF-1, 3# Hi-seal followed with 50 sacks class "C" cement. Actual cement volumes will be calculated from open hole logs and will be designed to circulate to surface.

RINCON UNIT WELL NO. 300
DRILLING PROGRAM - PAGE 3.

Auxiliary Equipment:

A Kelly cock will be used. with handle available

A full-opening safety valve will be used. to fit all drill strings in use.

5. DRILLING FLUID PROGRAM

Depth	Type	Weight	Vis	W.L.
0-225'	Spud Mud	--	--	N.C.
225-2900'	Fresh water	8.5	AR	12 cc
2900-TD	Fresh water	8.5-9.5	AR	4-6 cc

Sufficient materials to maintain mud requirements and to meet lost circulation and threatened blowout conditions shall be stored at the location.

6. CORING, TESTING, & LOGGING PROGRAM

DST'S: None Planned

Logging: DISFL-GR-SP, FDC-CNL-GR
Coal Log (to 50' above Coal)

Cores: None planned.

Completion:

During completion, the drilling rig will be removed and a completion rig will be moved in and BOP's of a similar pressure rating will be used.

The Fruitland Coal will be selectively perforated, stimulated and tested.

If productive, the Fruitland Coal formation will be hydraulically fractured.

Whether the well is completed as a dry hole or producer a "Well Completion or Re-completion Report and Log"(Form 3160-4) will be submitted within 30 days after completion of the well, per 43 CFR 3164.

At least two copies of all logs, geologic summaries, sample descriptions, and all other data obtained during the drilling and completion operations will be filled with form 3160-4.

7. ABNORMAL PRESSURES, TEMPERATURES, AND POTENTIAL HAZARDS:

No above normal pressures zone are anticipated

Below normal pressures may occur in the Pictured Cliffs formation due to depletion.

<u>Formation</u>	<u>Est. Reservoir Pressure</u>
Fruitland Coal	800 PSI

Normal temperature gradients are anticipated.

No hydrogen sulfide gas is anticipated.

8. ADDITIONAL INFORMATION:

STARTING DATE:

Road and location work will begin as soon as approval has been received from the BLM, weather permitting. Drilling should commence immediately upon approval of the APD, weather permitting.

The BLM will be notified 48 hours before dirt work begins and 24 hours before drilling operations begin.

Duration of Operations:

Drilling will be approx. 6 days
Completion will be approx. 10 days.
