

## DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*

(Other instruction  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-005-61309

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

Western Reserves Oil Co. ✓

## 3. ADDRESS OF OPERATOR

P. O. Box 993 Midland, TX. 79702

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980 FSL & 1980 FEL Sec 13 T-5-S R-24-E  
At proposed prod. zone

ARTESIA OFFICE

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

22 Miles Northwest Elkins

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

## 16. NO. OF ACRES IN LEASE

800

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

5400'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3938.7 GR

## 22. APPROX. DATE WORK WILL START\*

20 Dec. 81

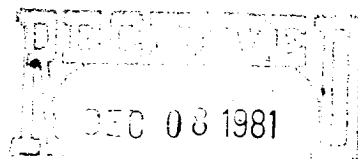
## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	900'	1000 <del>LB</del>
** 12 1/4"	8 5/8"	2#	1700'	700 SX.
7 7/8"	4 1/2"	10.5#	4200'	250 SX.

\*\* If lost circulation is encountered; drill through same and set 1700' of 8 5/8" 24# casing. If no lost circulation is encountered by 1700'; reduce hole size to 7 7/8" and drill to TD.

GAS IS DEDICATED.

U.S. GEOLOGICAL SURVEY  
LOWELL, NEW MEXICOPosted 10-1  
API + NL Bond  
12-31-81

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

Natural Resources Eng.

Agents for

TITLE Western Reserves Oil Co. DATE December 12, 1981

SIGNED

JTG Janica

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DEC 22 1981

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-122  
Supersedes O-128  
Effective 1-1-85

All distances must be from the outer boundaries of the Section

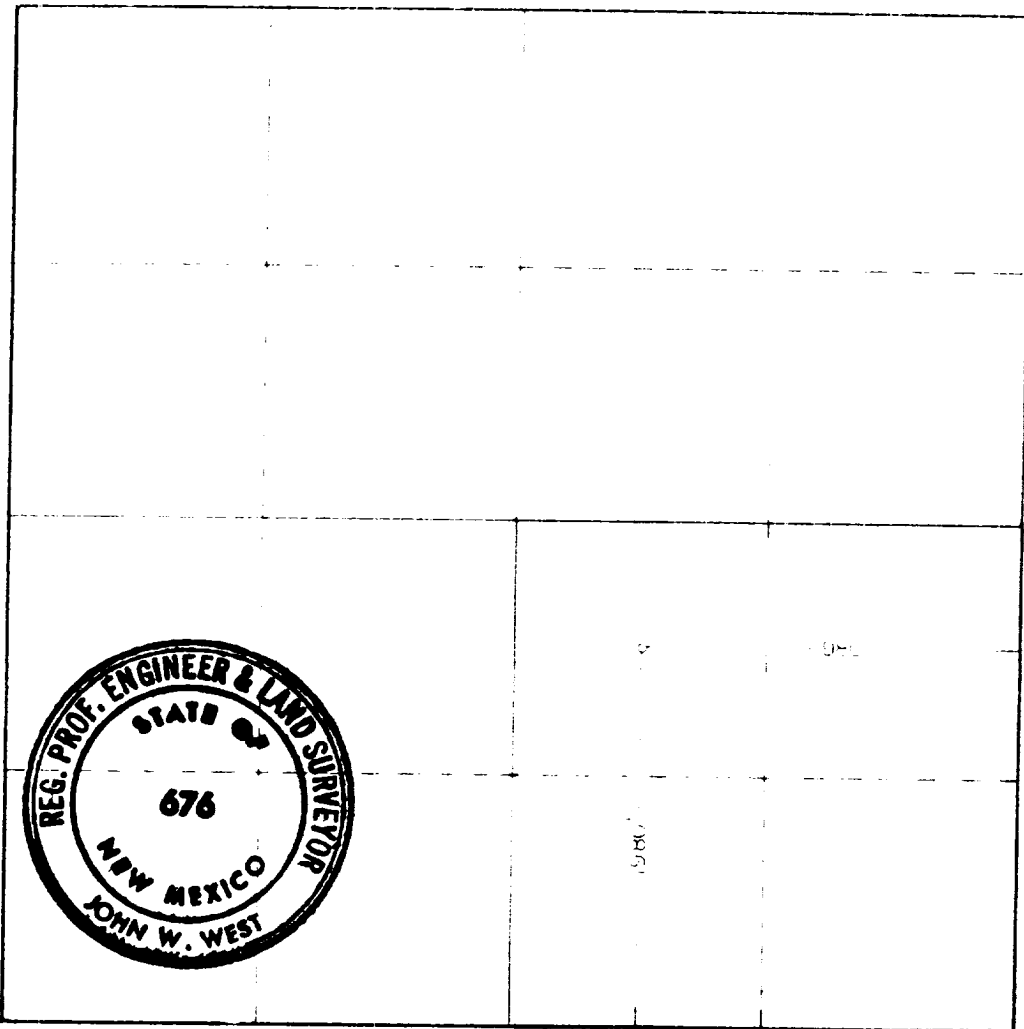
WESTERN RESERVE OIL			BEMORE 24 FED.		3
J	13	5 SOUTH	24 EAST	CHAVES	
1980	SOUTH		1980	EAST	
3938.4	<del>Undesignated</del> Abo Abo <del>Undesignated</del>				160

- Outline the acreage dedicated to the subject well by colored pencil or machine 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 interests of all owners been consolidated by communitization, 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 showable will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

*J.T. Janica*

J. T. Janica

NREE, Agents for

Western Reserves Oil Co.

December 7, 1981

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.

*J.T. Janica*

11-10-81

REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW MEXICO

*John W. West*

Certificate No. JOHN W. WEST 676  
PATRICK A. ROMERO 6883  
Donald L. Edwards 7070

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290



## APPLICATION TO DRILL

Western Reserves Oil Co.  
Bevmor 24 Federal #3  
Section 13 T-5-S, R-24-E  
Chaves County, New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following answers are provided for your consideration:

1. Location: 1980' FSL, & 1980' FEL, Section 13, T-5-S, R-24-E, Chaves County, New Mexico.
2. Elevation Above Sea Level: CR
3. Geologic Name of Surface Formation: Alluvium.
4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using mud for the circulation medium.
5. Proposed Drilling Depth: 5400±
6. Estimated Geological Marker Tops: San Andres 625'; Glorietta 1500; Abo 3630; Wolfcamp 4400'
7. Mineral Bearing Formation: Water bearing - none; gas bearing - Abo 3830±; Oil bearing - none.
8. Casing Program: (A) Surface casing - 13 3/8", 48# new. (B) Intermediate casing - 8 5/8" 28# new. (C) Production casing - 4 1/2", 10.5# new.
9. Setting depth of casing and cement for same: (A) 13 3/8" casing set @ 900' cemented with 400 sx. Halliburton light cement w/1/2 lb/sx. Flocele & 4% CaCl, 300 sx. of Thixset cement w/2% CaCl 300 sx. Class "C" cement w/ 2% CaCl.  
(B) 8 5/8" casing set @ 1700'. Cemented with 200 sx. Thixset w/2% CaCl 300 sx. of Halliburton light cement w/1/2 lb/sx. Flocele 2% CaCl, and 200 sx. of Class C cement w/2% CaCl.  
(C) 4 1/2" casing set @ 4200' cemented with 250 sx. Class "C" cement w/0.3% Halad-4, 0.2% CFR-2 & 5 lb/sx. KCL.

10. Pressure Control Equipment: A blow-out preventer will be installed on the surface casing. It will be a 12" 3000 psi Schaffer Model 39 adapted for the drilling contractor's 4 1/2" drill pipe. The preventer will be Hydraulically operated. The blow-out preventer will be tested to 1500 psi after installed on surface casing.
11. Proposed Circulation Medium: Mud will be used for the circulating medium for all depths in this well. The following mud properties will be maintained. Surface hole 350' will use spud mud to surface casing point. 350' - 1600' will use native mud 33 to 35 viscosity. 1600' - 4200' will use same fluid in previous interval, circulating reserve and cleaning up the drilling fluid, converting to a controlled brine (9.0 to 9.2 lbs/gal) using Caustic Soda for ph control, 9.0 to 10 ph. 4200' - 5400' will use salt gel and maintain 36 to 38 viscosity sufficient to clean hole and get good samples.
12. Testing, Logging, and coring Programs: (A) All testing will be performed after the well has been drilled and casing has been set and cemented. (B) Logging: At total depth, the following logs will be run: 1) 0' - 5400' sidewall neutron porosity with gamma ray and claiper; 2) 5400' - 3400' dual laterolog - micro-SFL. (C) No coring.
13. Potential Hazards: No abnormal pressure or temperature zones are anticipated. Hydrogen sulfide gas is not expected to be a problem; however, the drilling rig will be so situated as to allow all gas vapors to be expelled away from all personnel gathering sites and engine exhausts.
14. Anticipated Starting Date and Duration of Operation: Commence December 20, 1981. Four weeks to complete. January 20, 1982.
15. Other Facets of Operations: After running 4 1/2" casing, cased hole gamma ray collar correlation logs will be run from total depth to 4000±. The Abo pay will be perforated and stimulated. The well will be swab tested and potentialled.