Form 9-332 C (May 1963)		NICO CD.				red. 10 No. 42-R1425,	
UNI D STATES (Other instruction reverse side) DEPARTMENT OF THE INTERIOR					30-005-60937		
19.	DEPARTMEN	•	5. LEASE DESIGNATION AND SEBIAL NO.				
·	GEOLO	NM12441					
APPLICATIO	N FOR PERMIT	6. IF INDIAN, ALLOTTEE OB TRIBE NAME					
DRILL DEEPEN DEEPEN PLUG BACK					7. UNIT AGREEMENT	NAME	
OIL     GAS     SINGLE     MUREGEIVED       WELL     WELL     OTHER     SINGLE     MUREGEIVED       2. NAME OF OFFERATOR     (     CONE     CONE				S. FARM OR LEASE NAME			
	Reserves Oil	0 7 1981	Bevmor '24' Federal 9. WELL NO.				
P. O. BO 4. LOCATION OF WELL (I At surface	x 993 Midlan Report location clearly and	d, Texas In accordance with a	79702 C. ARTESIA	C. D.	2 10. FIELD AND POOL, X Undesign	om WILDCAT ated (Abo)	
1980'FNL At proposed prod. zo	ά 1980' FWL, ne	11. SEC., T., B., M., OB BLE. AND SURVEY OF AREA U.L. F.					
14. DISTANCE IN MILES	Same AND DIRECTION FROM NEAR	EST TOWN OF POST OF	FICE <sup>4</sup>			-5-S, R-24-E	
	northwest of	Elkins	. NO. OF ACRES IN LEASE		12. COUNTY OR PARISE	13. STATE N.M.	
LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dri 18. DISTANCE FROM PRO	T LINE, FT. g. unit line, if any)		800	16	-		
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	19	5.100		RY OR CABLE TOOLS		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			5400' Ro		22. APPROX. DATE WORK WILL START*		
3938.7	' GR				2/26/81	- THUN DIANI	
23.		ROPOSED CASING	AND CEMENTING PROGR	AM	1 2/20/01		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
17 1/2"	13 3/8"	48#	400'	3	75sx		
7 7/8"	4 1/2"	10.5#	5400'	4	400sx		
N ABOVE SPACE DESCRIBE oue. If proposal is to reventer program, if an	ariii or deepen directional	roposal is to deepen o ly, give pertinent dat	or plug back, give data on p a on subsurface locations ar	resent produ ad measured	and true vertical depth	d new productive s. Give blowout	
24. BIGNED	y minklin	- TITLE	Agent			2/81	
(This space for Fede	ral or Ating ROde F	5					
PERMIT NO. (Orig. S	gd.) PETER W. CHE	STER-	APPROVAL DATE				
APPROVED BY CONDITIONS OF APPROV	1128 5 108 AL, 15 ANY :	TITLE			DATE		
	JAMES A. GILLH DISTRICT SUPERVI						

\*See Instructions On Reverse Side

## MEXICO OIL CONSERVATION COMMISTE N WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-1: Supersede	
Effective	1-1-65

۲.		All distances must be	from the outer boundaries of	the Section	<u> </u>
Operator			Lease "24"	_	Well Nr.
Wester	n Reserves	Oil Co.	Beymor/Fe	d, 🎉	2
	ktion	Township	Ranq≠	-inunty	
F	24	5 South	24 East	Chaves	
Actual Footage Locatio	n of Wel:				
1980 t		orth Incom		t from the West	Dhe
Ground Level Elev.	Producing Form	đt n	Poet		Definated Acreage:
3938.7	Abo		Undesignate	d	160 Asres
	one lease is (		well by colored pencil o ell, outline each and ide		ne plat below. hereof (both as to working
	munitization, un	itization, force-poo			all owners been consoli-
If answer is	"no," list the o	whers and tract des	criptions which have ac	tually been consolid.	att se reverse side of
this form if no			·	- Colter	
No allowable forced-pooling sion.	will be assigned g, or otherwise) of	d to the well until a or until a non-standa	Il interests have been and unit, eliminating suc	Anterests's Hais been	municipation, unitization, Marged by the Commis-
			1	UNCEWELL	CERTIFICATION
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1			ļ	I hereby	certify that the information con-
1	1		i	tained he	rein is true and complete to the
	-086		i	best of m	y knowledge and belief.
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				Joe T.	Janica
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1980	0				n Reserves Oil Co
	t		i		
	1		I	1/7/81	
			l		
				shown on notes of under my s true a	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same nd correct to the best of my and belief.
				Registered Tria r L m	3-81 r tessic : 31 Engineer 
					PATRICK A ROMERO 6865
0 330 660 80	1320 1650 1940	23 2040 200	NE 147 1000 🕷	<b>oo</b> 0	Ronald J. Eidson 3239

#### APPLICATION TO DRILL

Western Reserves Oil Co. Bevmor '24' Federal #2 Section 24, 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:

- I. Location: 1980' FNL; & 1980' FWL, Section 24, T-5-S, R-24-E, Chaves County, New Mexico
- 2. Elevation Above Sea Level: 3938.7 GR
- 3. Geologic Name of Surface Formation: Alluvium
- 4. <u>Drilling Tools and Associated Equipment</u>: Conventional rotary drilling rig using mud for the circulation medium.
- 5. Proposed Drilling Depth: 5400<sup>+</sup>
- 6. <u>Estimated Geological Marker Tops</u>: San Andres 600'; Glorietta 1605'; Abo 3670'; Wolfcamp 4430'
- 7. <u>Mineral Bearing Formation</u>: Water bearing none; gas bearing - Abo 3830+; Oil bearing - none.
- 8. <u>Casing Program</u>: (A) Surface casing 13 3/8 ", 48# new. (B) Production casing - 4 1/2" 10.5# new.
- 9. Setting Depth of Casing and Cement for Same: (A) 13 3/8" casing set at 400'. Cemented with 375 sacks Class C, 2% CaCl. Cement circulated to surface. (B) 4 1/2" casing set at 5400'. Cemented with 400 sacks of Halliburton Lite, 8# salt/sack, 1/4# flocele/sack.
- 10. Pressure Control Equipment: A blow-out preventer will be installed on the surface casing. It will be a 10" 3000 psi test series QRC preventer adapted for the drilling contractor's 4 1/2" drill pipe. The preventer will be mechanically operated. The blow-out preventer will be tested to 1500 psi after installed on surface casing.

Appliedtion to Drill Western Reserves Oil Co. Beymon '24' Federal #2 Page 2

- 11. <u>Proposed Circulation Medium</u>: 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 salt gel and lime 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) O' - 5400' sidewall neutron porosity with gamma ray and caliper; 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 February 26, 1981. Four weeks to complete. March 26, 1981.
- 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<sup>±</sup>. The Abo pay will be perforated and stimulated. The well will be swab tested and potentialed.

### SURFACE USE AND OPERATION PLAN

Western Reserves Oil Co. Bevmor '24' Federal #2 Section 24, T-5-S, R-24-E Chaves County, New Mexico

- I. Existing Roads
  - A. Exhibit 'A' is a portion of an ownership map showing the location of the proposed well as staked. Proposed location is approximately 22 miles northwest of Elkins, New Mexico.
  - B. Exhibit 'B' is a map showing existing roads in the area of the proposed location.
- II. <u>Access Roads</u>
  - A. Planned access roads are shown on Exhibit 'B'.
  - B. The road will be constructed of caliche and will be 12' wide by 1780' long.
- III. Location of Existing Wells

A. Existing wells in the area are shown on Exhibit 'B'.

- IV. Location of Tank Batteries, etc.
  - A. Exhibit 'C' shows the proposed tank battery.
  - V. \_Location and Type of Water Supply
    - A. There is no known surface water in the immediate area.
    - B. All water in drilling operations will be trucked to the drillsite from commercial sources.
- VI. Source of Construction Materials
  - A. Construction material will be caliche, which will be purchased by dirt contractors. The barrow pit is situated in NE¼ NE¼, Section 22, T-5-S, R-24-E, Chaves County, New Mexico.
- VII. Methods for Handling Waste Disposal
  - A. Well cuttings will be disposed in the reserve pit. All other waste will be buried in a separate pit.

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Surface Use and Operation Plan
Western Reserves Oil Co.
Bevmor '24' Federal #2
Page 2
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#### VII. Methods for Handling Waste Disposal (cont.)

- B. After completion, any produced water will be collected in tanks and trucked to an approved disposal system.
- C. During testing operations, all produced fluids will be collected in tanks and trucked from the wellsite.

#### VIII. Auxiliary Facilities

A. None anticipated.

IX. Wellsite Layout

A. Exhibit 'D' is a plot of the wellsite and rig layout.

- X. Plans for Restoration of the Surface
  - A. After completion of the well, pits will be filled and the location cleaned of all trash and junk to leave the wellsite in good condition.
  - B. Any unguarded pits containing fluids will be fenced off until they are filled.
  - C. The reserve pits will be backfilled and leveled and the surface returned to its original contour.

#### XI. Other Information

- A. Topography: Terrain in the area is more or less east to west trending ridge. This landform is marked by a gentle gradient. Surficial deposits are composed of silt loams and silty clay loams.
- B. Soil: Areal soils belong to the Calcic Gypsiorthid subgroups and its intergrades.
- C. Vegetation: Consists of Prosopis Julifora, yucca gluaca. Some observed cacti including Opuntia Umbricata and Opuntia Macrocentra.
- D. Fauna: Consists of crotalus and sistruris, Canis latrans, lepus allene and mephitis mephitis.
- E. The surface of the land is being utilized to a limited extent as grazing land.
- F. The surface is privately owned.
- G. No cultural resources or archaeological sites present.

Surface Use and Operation Plan Western Reserves Oil Co. Bevmor '24' Federal #2 Page 3

# XII. Operator's Representative

Natural Resources Evaluation and Engineering, Inc. P. O Box 2188 Hobbs, New Meixco 88240 Office: 505-393-6364

## XIII. <u>Certification</u>

I hereby certify that I, or persons under my direct supervision; have inspected the proposed drills te and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Western Reserves Oil Cc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

2/12/81

Date

Terry W. Franklin Agent for Western Reserves Oil Co.





EXHIBIT 'B' WESTERN RESERVES OIL COMPANY BEVMOR '24' FEDERAL NO. 2 SECTION 24, T-5-S, R-24-E CHAVES COUNTY, NEW MEXICO



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O Well

□ Separator

) Tank



Reserve ts 4 for a



EXHIBIT 'D' WESTERN RESERVES OIL COMPANY BEVMOR '24' FEDERAL NO. 2 SECTION 24, T-5-S, R-24-E CHAVES COUNTY, NEW MEXICO



Fred Pool Orilling ,Inc.

location plat

Blowout Preventer Specifications



1500 QRC Blowout preventer with closing unit



Reconnaissance Excavation

# NMAS New Mexico Archaeological Services, Inc.

P. O. Box 1341 Carlsbad, New Mexico 88220 (505) 887-7646

12 January 1981

Analysis Explanation Curation Mr. Joe T. Janica Agent WESTERN RESERVE OIL COMPANY P.O. Box 2188 Hobbs, New Mexico 88240

ELL, NOV MEXICO

Dear Mr. Janica:

Enclosed please find NMAS' Arhcaeological Clearance Report for WESTERN RESERVE OIL COMPANY's proposed Bevmor Federal 24 Well No. 1,Bevmor Federal 24 Well No. 2,and their associated access roads in Section 29, T5S, R29E, NMPM, Chaves County, New Mexico. No cultural resources were recorded during this reconnaissance, and hence NMAS is *suggesting* clearance for this project.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this reconnaissance.

Yours sincerely, Lell J. Loring Haskell

Principal Investigator

Enclosure

cc: Ms. Ann Ramage, BLM, Roswell Mr. George Stewart, USGS, Roswell Mr. Curtis Schaafsma, Laboratory of Anthroplogy, Santa Fe Mr. Thomas W. Merlan, SHPO, Santa Fe

as

# Archaeological Clearance Report

## for

# WESTERN RESERVE OIL COMPANY

Bevmor Federal 24 Well No. 1 Bevmor Federal 24 Well No. 2

# Prepared

Ву

Dr. J. Loring Haskell

# Submitted

Ву

Dr. J. Loring Haskell Principal Investigator New Mexico Archaeological Services,Inc. Carlsbad, new Mexico

12 January 1981

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Permit No. 80-NM-193

#### ABSTRACT

New Mexico Archaeological Services, Inc., representing WESTERN RESERVE OIL COMPANY, undertook an archaeological reconnaissance of Bureau of Land Management lands scheduled to be impacted by the construction of two drill locations and their associated access roads. The investigated locations and their associated access roads are situated in Section 24, T5S, R24E, NMPM, Chaves County, New Mexico. No cultural resources were recorded during this reconnaissance, and hence NMAS is *suggesting* clearance for WESTERN RESERVE OIL COMPANY's proposed work.

# Introduction

On 10 January 1981, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for WESTERN RESERVE OIL COMPANY, an archaeological reconnaissance of federal lands administered by the Bureau of Land Management in Chaves County, New Mexico. Reconnoitered areas will be impacted by the construction of two drill locations and their associated access roads. This project was advanced by Mr. Terry Franklin, Agent, WESTERN RESERVE OIL COMPANY, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This reconnaissance was undertaken by Dr. J. Loring Haskell and Mr. John C. Haight.

#### Survey Technique

For this investigation, WESTERN RESERVE OIL COMPANY's proposed locations were reconnoitered for evidence of man's past activities by walking them in a series of 20 ft wide, close interval (15° or less), zigzag transects. In addition an added zone embracing to 20 ft on each side of the staked 400 X 400 ft locations, and hence lying outside the bounds of the proposed work areas, was reconnoitered by a similar means as were their access roads. Methodologically, this procedure served to promote optimal conditions for the visual examination of areas to be impacted by construction-related activities.

Bevmor Federal 24 Well No. 1

#### Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 1980 ft from the north line and 1980 ft from the east line of:

Section 24, T5S, R24E, NMPM, Chaves County, NM

Thus it will be situtated in the:

SWZNEZ, Section 24, T5S, R24E, NMPM, Chaves County, NM

The associated access road will measure approximately 20 X 1300 ft and will be situated in the:

SWZNEZ, Section 24, T5S, R24E, NMPM, Chaves County, NM SEZNWZ, Section 24, T5S, R24E, NMPM, Chaves County, NM Map References: USGS COTTONWOOD DRAW QUADRANGLE, 15 Minute Series, 1967. USGS SHANNON DRAW QUADRANGLE, 15 Minute Series, 1967.

#### Terrain

WESTERN RESERVE OIL COMPANY's proposed location will be situated on the south-facing shoulder of a more or less east-west trending ridge. As a whole, this landform is marked by a gentle gradient. Surficial deposits are composed of generally loose silt loams and silty clay loams belonging to the Calcic Gypsiorthid subgroup and its intergrades. Limestone gravels commonly occur in most soils.

## Floristics

Areal soils host a low overstory of *Prosopis julifiora* and less frequent *Yucca glauca*. Observed cacti occurring on local soils include Opuntia imbricata and Opuntia macrocentra. Chief forbs of this association are Perezia nana, and Gutierrezia sarothare. The Gramineae is represented mainly by Scleropogon brevifolius, Hilaria mutica, and Bouteloua sp.

# Cultural Resources

No cultural resources were observed during the course of this reconnaissance. Their overall absence is due mainly to the fact that lithic material essential for flaked-tool manufacture is lacking in the immediate vicinity as is shelter and potable water.

# Recommendations

NMAS recommends clearance for WESTERN RESERVE OIL COMPANY's proposed

Bevmor Federal 24 Well No. 1 and its access road and *suggests* that workrelated activities proceed in accordance with company plans. Clearance, of course, is granted by the Bureau of Land Management.

Bevmor Federal 24 Well No. 2

#### Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 1980 ft from the north line and 1980 ft from the west line of:

Section 24, T5S, R24E, NMPM, Chaves County, NM

Thus it will be situated in the:

SEZNWZ, Section 24, T5S, R24E, NMPM, Chaves County, NM

The associated access road will measure 20 X 1780 ft and will be situated in the:

SEZNWZ, Section 24, T5S, R24E, NMPM, Chaves County, NM SWZNWZ, Section 24, T5S, R24E, NMPM, Chaves County, NM

Map Reference: USGS SHANNON DRAW QUADRANGLE, 15 Minute Series, 1967.

#### Terrain

The investigated location is situated on the slope of a gently trending slope of an extesive ridge system situated due west of the Pecos River. Local soils host limestone gravels in most instances. Pedons are dominated by the silt and clay separates and belong to the Calcic Gypsiorthid subgroup. Floristics

Principal plants of this association are Prosopis juliflora and Yucca glauca. Forbs of this community are Perezia nana, Gutierrezia sarothrae, and Euphorbia sp. The Gramineae is represented by Hilaria mutica and Seleropogon brevifolius. The Cactaceae is represented by Opuntia imbricata and Seleropogon brevifolius.

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#### Cultural Resources

No cultural resources were recorded during this reconnaissance. In the past, this landform was occupied by task-specific social units engaged in hunting. Albeit not encountered, resources reflecting this type of usage include isolated projectile points and scrapers.

## Recommendations

NMAS recommends clearance for WESTERN RESERVE OIL COMPANY's proposed Bevmor Federal 24 Well No. 2 and its access road and *suggests* that workrelated activities proceed in accordance with company plans. Clearance, of course, is granted by the Bureau of Land Management.