

N.M. SALMONS. COMM-  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## 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

OXY USA Inc.

## 3. ADDRESS OF OPERATOR

P.O. Box 50250 Midland, TX 79710

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

At surface

139 FNL 372 FEL NE-NE

At proposed prod. zone

UNORTHODOX  
LOCATION:State  
Approval  
By State

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

11 miles South from Eunice, NM

## 15. DISTANCE FROM PROPOSED\*

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

3777'

## 16. NO. OF ACRES IN LEASE

9326.56

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

873'

## 19. PROPOSED DEPTH

3900'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3309'

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

ASAP

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

## Capitan Controlled Water Basin

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	400'	260sx - Circulate to Surface
7 7/8"	5 1/2"	15.5#	3900'	810SX - Circulate to Surface

OPER. OGRID NO. 16696 It is proposed to drill this well to a TD of 3900'PROPERTY NO. 14953POOL CODE 37240EFF. DATE 7-21-94API NO. 31-125-32592

See other side

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.

SIGNED

TITLE Engineering Advisor

DATE

6/13/94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Bit Program:	12-1/4" hole to 400' 7-7/8" hole to TD	
BOP Program:	0 - 400' 400' - TD	None 3000# WP pipe and blind rams w/ 3000# WP annular preventer and choke manifold
Mud Program:	0 - 400'	Drill w/ a gel/lime slurry. Use paper to control seepage and for sweeps.
	400' - 3350'	Drill with 10# brine water. Circulate through the reserve pit to control solids. Use paper to control seepage and for sweeps.
	3350' - TD	Raise viscosity to 32-34 secs with salt gel. Reduce waterloss to < 15 cc's. Keep pH < 10.
Coring Program:		None planned
Logging Program:		GR-DLL-MSFL-caliper GR-CNL-lithodensity
DST Program:		None planned
Casing Program:	Surface	0 - 400' 8-5/8" 24# K55 STC
	Production	0 - TD 5-1/2" 15.5# K55 STC (roughcoat 500')
Cement program	Surface	Lead 260 sx Cl C + 2% CaCl <sub>2</sub> + 1/4 pps cellophane flakes
	Production	Lead 660 sx Premium Plus w/15 pps salt + 1/4 pps cellophane flakes  Tail 150 sx 50/50 Poz/Cl C + 2% gel + 3 pps KCl + .3% Halad- 9  Calculate annular volume from caliper log and adjust volumes if necessary.
Wellhead	8-5/8" 3000# WP Larken "Unistack" casing head 5-1/2" x 2-7/8" 3000# WP Larken "Unistack" tubing head	
H <sub>2</sub> S safety	While drilling below 3000', protective breathing equipment at 2 sites, wind direction indicator, and automatic H <sub>2</sub> S detection and alarm equipment shall be on location. All contractor and company personnel shall be trained in H <sub>2</sub> S safety in accordance with TRC Rule 36.	

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**OIL CONSERVATION DIVISION**

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

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number		Pool Code	Pool Name	
Property Code	Property Name		Well Number	
	MYERS LANGLIE MATTIX UNIT		268	
OGRID No.	Operator Name		Elevation	
	OXY U.S.A. INC.		3309'	

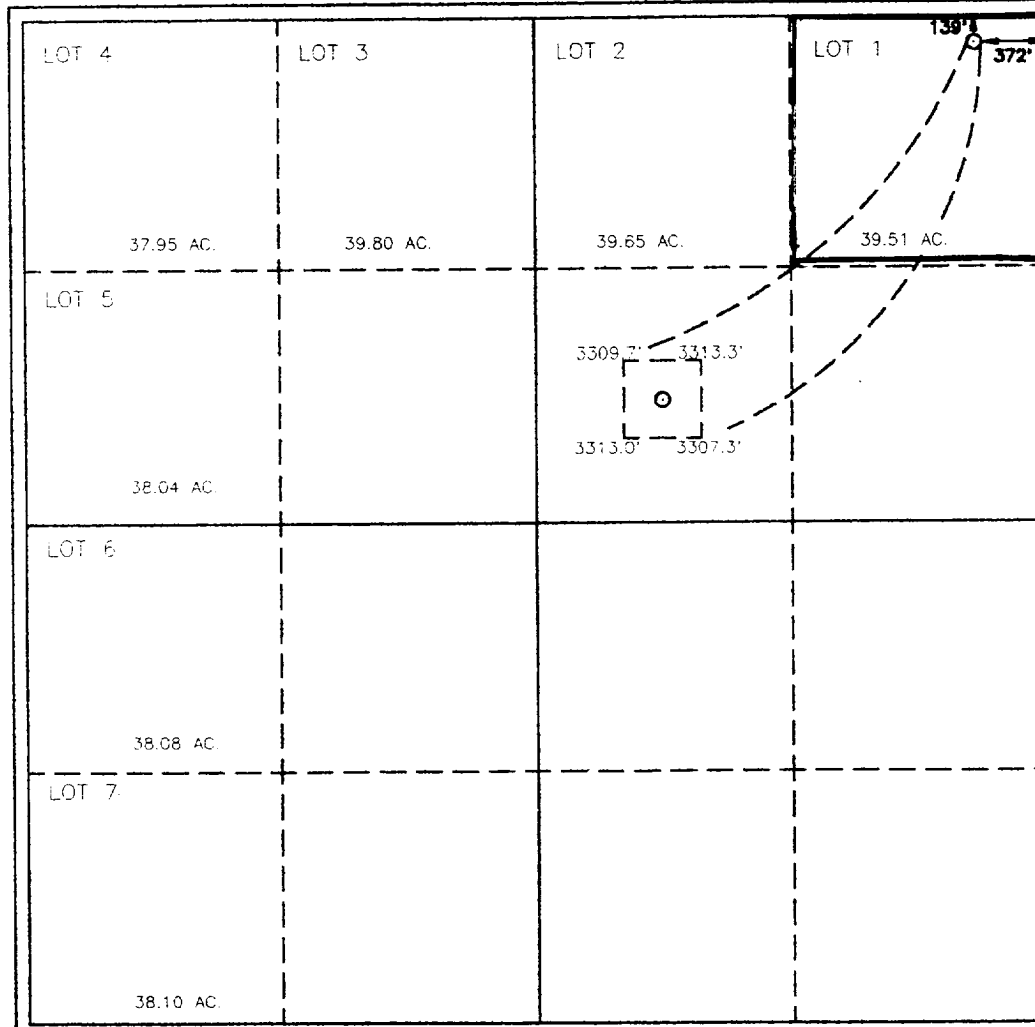
**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	24 S	37 E		139	NORTH	372	EAST	LEA

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill	Consolidation Code		Order No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

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

*Scott E. Gengler*  
Signature

Scott E. Gengler

Printed Name

Engineering Advisor

Title

May 26, 1994

Date

**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 belief.

APRIL 14, 1994

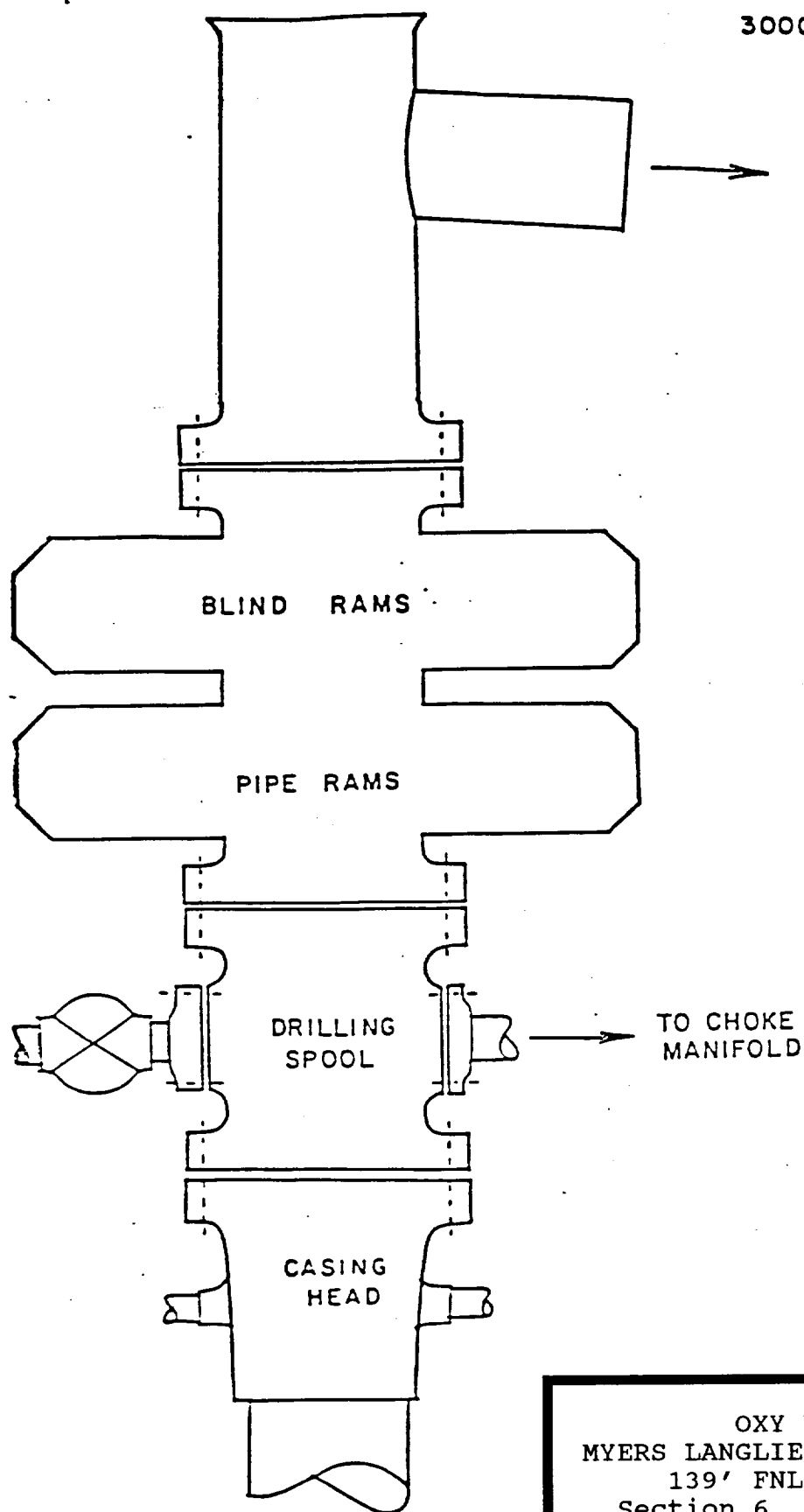
Date Surveyed

*John W. West*  
Signature & Seal of  
Professional Surveyor

W.O. No. 94-11-0463

Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239  
GARY L. JONES, 7977

BLOWOUT PREVENTER DIAGRAM  
3000# W.P.



OXY USA Inc.  
MYERS LANGLIE MATTIX UNIT #268  
139' FNL & 372' FEL  
Section 6, T-24-S, R-37-E  
Lea County, New Mexico  
Federal Lease No. NM-7488



OXY USA INC.

Box 50250, Midland, TX 79710

May 26, 1994

United States Department of the Interior  
Bureau of Land Management  
Carlsbad Resource Area  
P.O. Drawer 1778  
Carlsbad, New Mexico 88220

Re: Application for Permit to Drill  
OXY USA Inc.  
Myers Langlie Mattix Unit #268  
Lea County, New Mexico  
Lease No. NM-7488

Gentlemen:

OXY USA Inc. respectfully requests permission to drill our Myers Langlie Mattix Unit #268, located 139' from the north line and 372' from the east line of Section 6, T-24-S, R-37-E, Lea County, New Mexico, Federal Lease No. NM-7488.

The location and work area have been staked. It is approximately 11 miles south of Eunice, New Mexico.

In accordance with requirements stipulated in Federal Onshore Oil and Gas Order No. 1 under 43 CFR 3162.1, our Application for Permit to Drill and supporting evidence is hereby submitted.

I. Application for Permit to Drill:

1. Form 3160.3, Application for Permit to Drill.
2. Form C-102 Location and Acreage Dedication Plat certified by Gary L. Jones, Registered Land Surveyor No. 7977 in the State of New Mexico, dated April 14, 1994. Exhibit attached.
3. The elevation of the unprepared ground is 3309 feet above sea level.
4. The geologic name of the surface formation is Tertiary Ogallala.
5. Rotary drilling equipment will be utilized to drill the well to TD 3,900' and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.

Application for Permit to Drill  
Myers Langlie Mattix Unit #268

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6. Proposed total depth is 3,900 feet.
7. Estimated tops of important geologic markers.

Anhydrite	1160'
Yates	2950'
Seven Rivers	3220'
Queen	3450'
Penrose	3620'
Total Depth	3900'

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Primary Objective:      Queen                      3450'

9. The proposed casing program is as follows:

Surface:              8-5/8" OD 24# K55 ST&C new casing

Production:        5-1/2" OD 15.5# K55 ST&C new casing

10. Casing setting depth and cementing program:

- A. 8-5/8" OD surface casing set at 400' in 12-1/4" hole. Circulate cement with 260 sacks Class C + 2%  $\text{CaCl}_2$  + 0.25 lb/sk cellophane flakes. If cement does not circulate, determine the top of cement by temperature survey then finish cementing to the surface through 1" in the annulus using Class "C" with 2%  $\text{CaCl}_2$ .
- B. 5-1/2" OD production casing set @ 3900' in 7-7/8" hole. Circulate Cement with 660 sacks Class C Light + 15 lb/sk salt + 0.25 lb/sk cellophane flakes followed by 150 sx 50/50 Poz/ Class H w/ 2% gel + 3 lb/sk KCl + 0.3% Halad 9.

Note: Cement volumes may need to be adjusted to hole caliper.

11. Pressure Control Equipment

0' - 400' None

400' - 3900' 10" 3000# ram type preventers with one set blind rams and one set pipe rams and a remote operating station. See attached exhibit.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

After setting the 8-5/8" casing, the blowout preventers and related control equipment shall be pressure tested to rated working pressures. Any equipment failing to test satisfactorily shall be repaired or replaced. The BOPs will be maintained ready for use until drilling operations are completed.

BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.

12. Mud Program:

0' - 400' Fresh water spud mud. Using lime to control pH (9 to 10). Paper for seepage. Vis 32-34 sec.

400' - 3350' Brine water. Wt. 10-10.1 ppg, vis 28-29 sec, pH 9.5-10 with lime. Paper for seepage control.

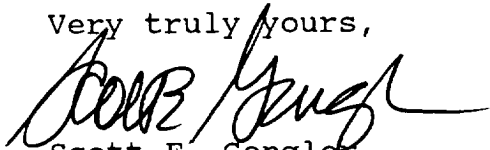
Application for Permit to Drill  
Myers Langlie Mattix Unit #268

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3350' - 3900' Mud up with salt gel system using gel for viscosity, starch for water loss, and caustic soda/soda ash for pH control to the following characteristics: Wt. 10.0 - 10.1, vis 32-34 secs, pH 10 - 10.5 WL < 15 cc's.

13. Testing, Logging and Coring Program:
  - A. Testing program: None
  - B. Mud logging program: None
  - C. Electric logging program: CNL-LDT-GR  
DLL-MSFL-Cal-GR
  - D. Coring program: No cores planned.
14. No abnormal temperatures or H<sub>2</sub>S gas are anticipated.
15. Anticipated starting date is one week after this application is approved by the Bureau of Land Management. It should take approximately 5 days to drill the well and another 7-10 days to complete.
16. The Multi-Point Surface Use & Operation Plan is attached.
17. If the Bureau of Land Management needs additional information to evaluate this application, please advise.

Very truly yours,

  
Scott E. Gengler  
Engineering Advisor  
Western Region

SEG/seg

Attachments