Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

N.M. OIL CONS. COMMISSION
1980
NEW MEXICO 88240

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. LEASE DESIGNATION AND SERIAL NO.: 8910138170 - NM7488

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. UNIT AGREEMENT NAME: Myers Langlie Mattix Unit

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: OXY USA Inc.

9. WELL NO.: 270

3. ADDRESS OF OPERATOR: P.O. Box 50250 Midland, TX 79710

10. FIELD AND POOL, OR WILDCAT: Langlie Mattix 7 Rvr-Q-G

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1410 FNL 90 FEL SE-NE UNORTHODOX LOCATION: NSL Approval
At proposed prod. zone:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 6 T24S R37E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 11 miles South from Eunice, NM

12. COUNTY OR PARISH: Lea — 13. STATE: NM

| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) | 16. NO. OF ACRES IN LEASE | 17. NO. OF ACRES ASSIGNED TO THIS WELL |
|---|---|---|
| 3871' | 9326.56 | 40 |
| **18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.** | **19. PROPOSED DEPTH** | **20. ROTARY OR CABLE TOOLS** |
| 793' | 3900' | Rotary |

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3307' GR

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 |

It is proposed to drill this well to a TD of 3900'.

OPER. OGRID NO. 16696
PROPERTY NO. 14953
POOL CODE 37240
EFF. DATE 7-21-94
API NO. 30-025-32593

Comments and Special Stipulations Attached

See other side

NSL-3405

JUN 15 PM 03

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 [signature] TITLE Engineering Advisor DATE 6/13/94

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ Scott Powers. TITLE For Area Manager DATE 7-19-94

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'<br>7-7/8" hole to TD | |
| BOP Program: | 0 - 400'<br>400' - TD | None<br>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<br>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% $CaCl_2$ + 1/4 pps cellophane flakes |
| | Production | Lead 660 sx Premium Plus w/15 pps salt + 1/4 pps cellophane flakes<br>Tail 150 sx 50/50 Poz/Cl C + 2% gel + 3 pps KCl + .3% Halad-9<br>Calculate annular volume from caliper log and adjust volumes if necessary. |
| Wellhead | 8-5/8" 3000# WP Larken "Unistack" casing head<br>5-1/2" x 2-7/8" 3000# WP Larken "Unistack" tubing head | |
| $H_2S$ safety | While drilling below 3000', protective breathing equipment at 2 sites, wind direction indicator, and automatic $H_2S$ detection and alarm equipment shall be on location. All contractor and company personnel shall be trained in $H_2S$ 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

# OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code | Pool Name |
|---|---|---|
| | | |

| Property Code | Property Name | Well Number |
|---|---|---|
| | MYERS LANGLIE MATTIX UNIT | 270 |
| OGRID No. | Operator Name | Elevation |
| | OXY U.S.A. INC. | 3307' |

### Surface Location

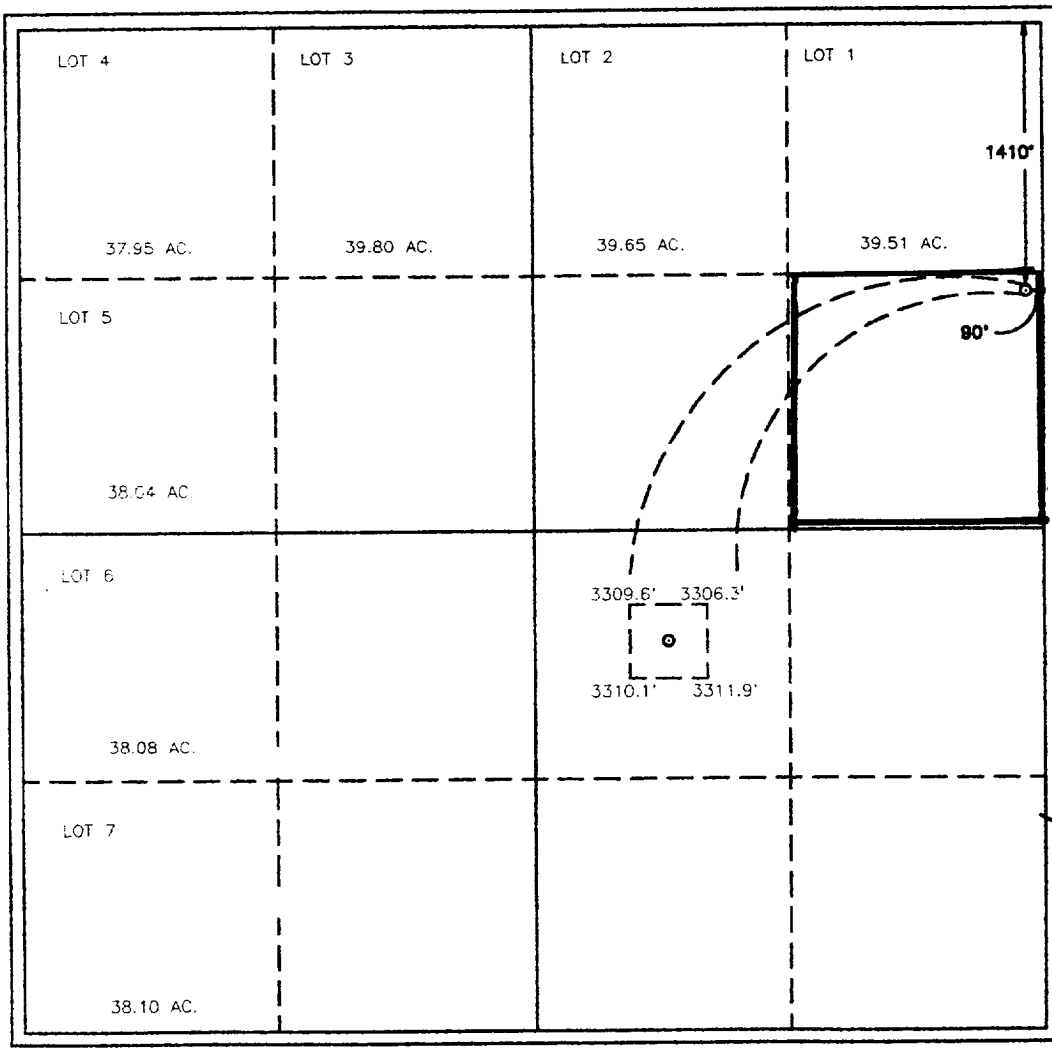
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| H | 6 | 24 S | 37 E | | 1410 | NORTH | 90 | EAST | LEA |

### 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.*

Signature
Scott E. Gengler
Printed Name
Engineering Advisor
Title
May 26, 1994
Date

### SURVEYOR CERTIFICATION

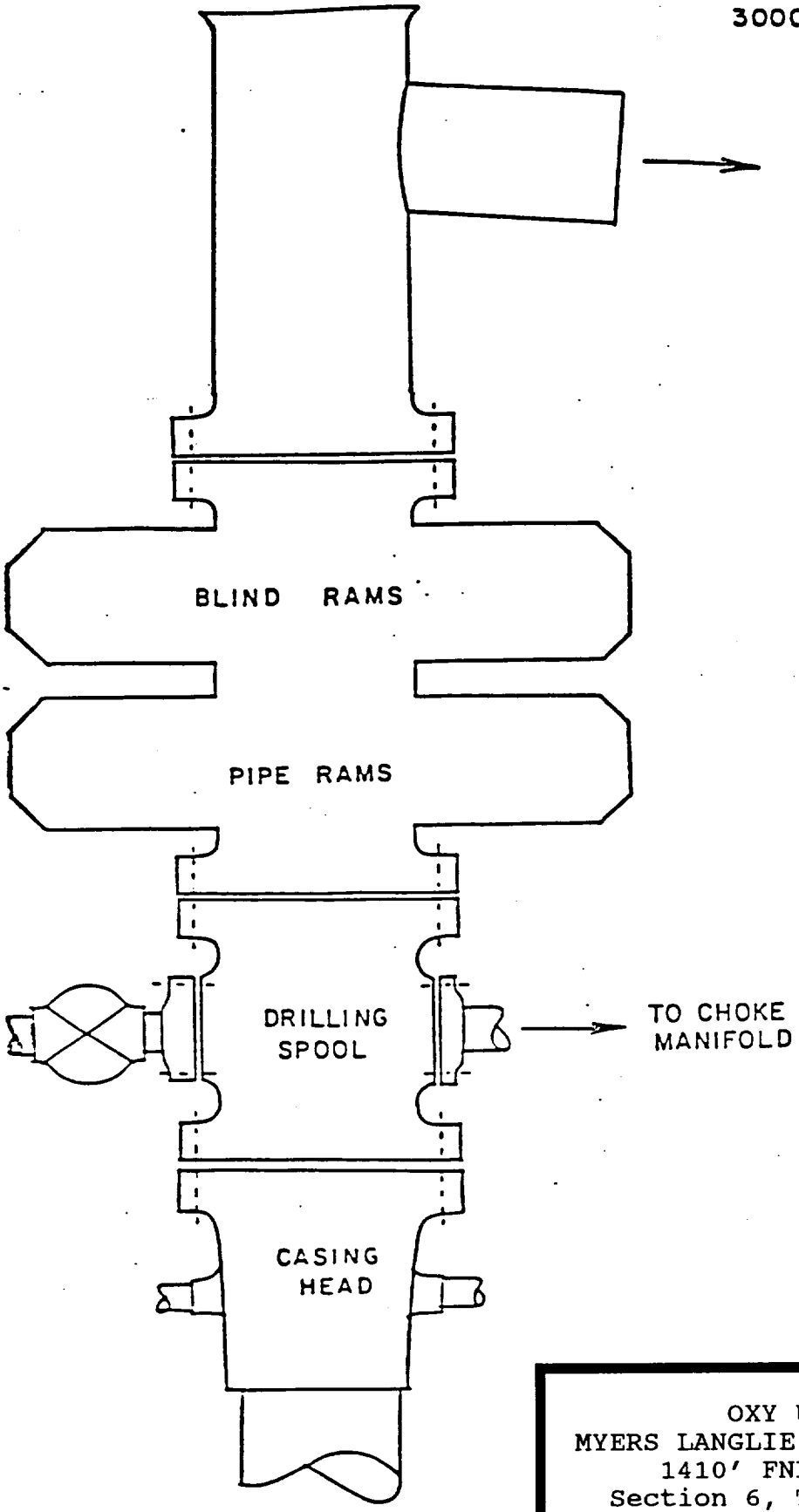
*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.*

APRIL 16, 1994
Date Surveyed
Signature & Seal of Professional Surveyor

W.O. Num. 94-11-0465

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 #270
1410' FNL & 90' 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 #270
Lea County, New Mexico
Lease No. NM-7488

Gentlemen:

OXY USA Inc. respectfully requests permission to drill our Myers Langlie Mattix Unit #270, located 1410' from the north line and 90' 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 Permission 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 16, 1994. Exhibit attached.

3. The elevation of the unprepared ground is 3307 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.

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% $CaCl_2$ + 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% $CaCl_2$.

   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. |

| | |
|---|---|
| 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 $H_2S$ 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

| | |
|---|---|
| 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 $H_2S$ 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