

## N. M. Cons. Division

611 1ST ST.

ARTESIA, NM 88210-2834

Form 3160-3  
(July 1992)SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

OXY USA Inc.

16696

16696

## 3. ADDRESS AND TELEPHONE NO.

P.O. Box 50250 Midland, TX 79710-0250 915-685-5717

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

At surface

660 FNL 1650 FEL NWNE(B)

At proposed prod. zone

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

6 miles southeast of Artesia, NM

## 15. DISTANCE FROM PROPOSED\*

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

660'

## 16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

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

N/A

## 19. PROPOSED DEPTH

9800'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3495'

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

9/18/98

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H40	48#	400'	420sx - Surface
11"	8-5/8" K55	24#	1800'	515sx - Surface
7-7/8"	4-1/2" N80	11.6#	9800'	605sx - 6000'

ROSWELL CONTROLLED WATER BASIN

Post ID-1

8-28-98

APT 4 Loc.

SEE OTHER SIDE

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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

David Stewart

Regulatory Analyst

DATE

7/23/98

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

Acting

Assistant Field Office Manager,  
Lands and Minerals

(ORIG. SGD.) ARMANDO A. LOPEZ

APPROVED BY

TITLE

DATE

AUG 26 1998

\*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.

ATTACHMENT 3160-3  
OXY USA Inc.  
OXY Woden State #1  
SEC 23 T17S R27E  
Eddy County, NM

PROPOSED TD: 9800' TVD

BOP PROGRAM: 0' - 400' None

400'-1800' 13-3/8" 5M blind and pipe rams with 5M annular preventer.

1800'-9800' 13-3/8" 5M blind and pipe rams with 5M annular preventer and rotating head below 8500'.

CASING: 13-3/8" 48# H40 ST&C casing @ 400'. 17-1/2" hole.

8-5/8" 24# K55 ST&C casing @ 1800'. 11" hole.

4-1/2" 11.6# N80 LT&C casing @ 9800'. 7-7/8" hole.

CEMENT: Surface - Circulate cement with 220sx 35:65 POZ/Class C with 6% gel + 2%  $\text{CaCl}_2$  + 0.25 #/sx Cello-Seal and 200sx Class C with 2%  $\text{CaCl}_2$ .

Intermediate - Circulate cement with 315sx 35:65 POZ/Class C with 6% gel + 5% salt + 0.25 #/sx Cello-Seal and 200sx Class C with 2%  $\text{CaCl}_2$ .

Production - Cement with 530sx Super C Modified cement with 0.5#/sx FL-25 + 0.2 #/sx CD-32 + 0.5 #/sx gilsonite and 75sx Class C with 2%  $\text{CaCl}_2$ .

Estimated top of cement is 6000'. Cement volumes may be adjusted to hole caliper.

MUD: 0' - 400' FW/Native Mud. Lime for pH control (9-10). Paper for seepage. Wt. 8.7-9.2ppg, vis 32-34sec.

400' - 1800' Brine water. Caustic for pH control (10-10.5). Paper for seepage. Wt. 10-10.1ppg, vis 28-29sec.

1800' - 6300' Fresh water. Caustic for pH control (9-9.5). Paper for seepage. Wt. 8.4ppg, vis 28-29sec.

6300' - 9000' Cut brine. Caustic for pH control (10-10.5). Wt. 9.2-9.4ppg, vis 28-29sec.

9000' - 9800' Mud up with a XCD Polymer system Wt. 9-9.6ppg, vis 32-34sec WL 8cc.

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

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

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

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 80400	Pool Name Undesignated Logan Draw Morrow
Property Code	Property Name OXY WODEN FEDERAL	Well Number 1
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3495'

Surface Location

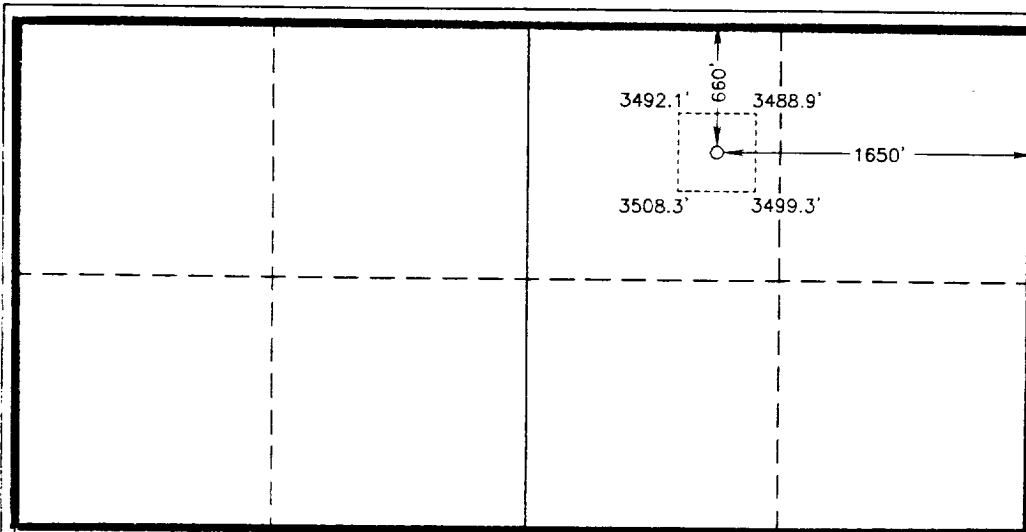
UL or lot No. B	Section 23	Township 17 S	Range 27 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1650	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 320	Joint or Infill N	Consolidation Code	Order No.
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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.

*David Stewart*  
Signature

David Stewart  
Printed Name

Regulatory Analyst  
Title

7/23/98  
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.

January 20, 1998  
Date Surveyed  
Signature & Seal of  
Professional Surveyor  
7977  
W.O. No. 8020a  
Certificate No. 7977 Jones  
BASIN SURVEYS

# BLowout PREVENTOR SCHEM

EXHIBIT A

