

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

8116 Instructions on reverse side
ARTESIA, NM 88210-2834

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1998

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

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 1658 FNL 660 FEL SENE (H)
At proposed production zone 2440 1980

5. LEASE DESIGNATION AND SERIAL NO.
NMO48344

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO. 23961
OXY P.I.B. Federal #1

9. API WELL NO.
30-015-30527

10. FIELD AND POOL, OR WILDCAT
Undesignated Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 21 T17S R28E

12. COUNTY OR PARISH
EDDY

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
13 miles southeast from 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
10500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3575'

22. APPROX. DATE WORK WILL START*
12/1/98

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'	360sx - Circulate
11"	8-5/8" K55	24#	2100'	515sx - Circulate
7-7/8"	4-1/2" N80	11.6#	10500'	825sx - 6000' - Est

SEE OTHER SIDE

Post ID-1
12-18-98
API & WOC

NSH-1164
11-18-98

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.

SIGNED: David Stewart TITLE: REGULATORY ANALYST DATE: 10/29/98

(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:

APPROVED BY: Amad A. Lopez TITLE: Acting Assistant Field Office Manager, Lands and Minerals DATE: 12/7/98

*See Instructions On Reverse Side

ATTACHMENT 3160-3
OXY USA Inc.
OXY P.I.B. Federal #1
SEC 21 T17S R28E
Eddy County, NM

PROPOSED TD: 10500' TVD

BOP PROGRAM: 0' - 400' None

400' - 2100' 13-3/8" 5M blind and pipe rams with 5M annular preventer.

2100' - 10500' 13-3/8" 5M blind pipe rams with 5M annular preventer and rotating head below 8500'.

CASING: Surface: 13-3/8" OD 48# H40 ST&C new casing set at 400'

Intermediate: 8-5/8" OD 24# K55 ST&C new casing from 0-2100'

Production: 4-1/2" OD 11.6# N80 LT&C new casing from 0-10500'

CEMENT: Surface - Circulate cement with 160sx 35:65 POZ/C with 6% Bentonite + .005#/sx Static Free + 2% CaCl₂ + .25#/sx Cello-Flake followed by 200sx Cl C with .005#/sx Static Free + .005gps FP-6L + 2% CaCl₂.

Intermediate - Circulate cement with 315sx 35:65 POZ/C with 6% Bentonite + .005#/sx Static Free + 2% CaCl₂ + .25 #/sx Cello-Flake + 5#/sx Gilsonite followed by 200sx Cl C with 2% CaCl₂ + .005#/sx Static Free + .005gps FP-6L.

Production - Cement with 750sx 15:61:11 POZ/C/Silica with .005#/sx Static Free + .005gps FP-6L + 11#/sx CSE + .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 75sx Cl C with .005#/sx Static Free + .005gps FP-6L + .5% FL-25.
Estimated top of cement is 6000'.

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

MUD:

0 - 400' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage.
Wt 8.7-9.2 ppg, Vis 32-34 sec

400' - 2100' Brine water. Caustic for pH control (10.0-10.5). Paper for seepage.
Wt 9.6-10.1ppg, Vis 28-29 sec

1800' - 6900' Fresh water. Caustic for pH control (9-9.5). Paper for seepage.
Wt 8.4 ppg, Vis 28-29 sec

6900' - 9300' Cut brine. Caustic for pH control (10-10.5).
Wt 9.6 - 10.0 ppg, Vis 28-29sec

9300' - 10500' Mud up with an XCD Polymer mud system.
Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc