

UNITED 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

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

1650 FSL 660 FWL NWSW (L)

At proposed prod. zone

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

18 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

11300'

20. ROTARY OR CABLE TOOLS

R

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

3532'

22. APPROX. DATE WORK WILL START\*

PROPOSED CASING AND CEMENTING PROGRAM

CAPITAN CONTROLLED WATER BASIN

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 - Surface
11"	8-5/8" K55	32#	3200'	995sx - Surface
7-7/8"	4-1/2" N80-S95	11.6#	11300'	935sx - Est TOC - 8500'

SEE OTHER SIDE

Post ID-1  
9-17-99  
API & Loc



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

*David Stewart*

TITLE

DAVID STEWART  
REGULATORY ANALYST

DATE

8/6/99

(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

/S/LARRY D. BHAY

Assistant Field Office Manager,  
Lands and Minerals

APPROVED BY

TITLE

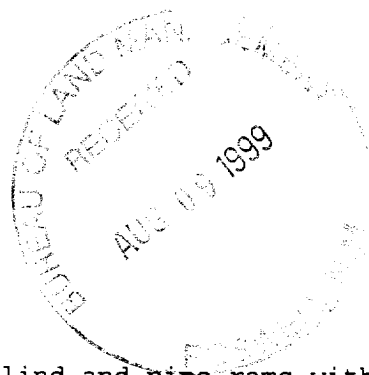
DATE

9-7-99

\*See Instructions On Reverse Side

APPROVED FOR 1 YEAR

ATTACHMENT 3160-3  
OXY USA Inc.  
OXY Lion Federal #1  
SEC 20 T18S R29E  
Eddy County, NM



PROPOSED TD: 11300' TVD

BOP PROGRAM: 0' - 400' None

400' - 3200' 13-3/8" 5M blind and pipe rams with 5M annular preventer.

3200' - 11300' 13-3/8" 5M blind pipe rams with 5M annular preventer and rotating head below 6000'.

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

Intermediate: 8-5/8" OD 32# K55 ST&C new casing from 0-3200'

Production: 4-1/2" OD 11.6# LT&C new casing from 0-11300'  
N80-9500' S95-1800'

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

Intermediate - Circulate cement with 795sx 35:65 POZ/C with 6% Bentonite + .005#/sx Static Free + 2% CaCl<sub>2</sub> + .25#/sx Cello-Seal + .005gps FP-6L + 5#/sx Gilsonite followed by 200sx Cl C with 2% CaCl<sub>2</sub> + .005#/sx Static Free + .005gps FP-6L.

Production - Cement with 860sx 15:61:11 POZ/C/CSE with .005#/sx Static Free + .005gps FP-6L + .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 75sx Cl C with .005#/sx Static Free + .005gps FP-6L + .7% FL-25.  
Estimated top of cement is 8500'.

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 8.7-9.2ppg, Vis 32-34sec

400' - 3200' Brine water. Lime for pH control (10.0-10.5). Paper for seepage.  
Wt 9.6-10.1ppg, Vis 28-29sec

3200' - 8500' Fresh water. Lime for pH control (9-9.5). Paper for seepage.  
Wt 8.3-8.5ppg, Vis 28-29sec

8500' - 10000' Cut brine. Lime for pH control (10-10.5).  
Wt 9.6-10.0ppg, Vis 28-29sec

10000' - 11300' Mud up with an Duo Vis/Flo Trol mud system.  
Wt 10.0-10.2ppg, Vis 34-38sec, WL<8cc