

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AMENDED APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

1B. 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

880 FSL 1140 FEL SESE (P)

At proposed prod. zone

Enen; Morrow, NE

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

6 miles north of Loco Hills, NM

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. 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

12400'

20. ROTARY OR CABLE TOOLS

R

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

4047'

22. APPROX. DATE WORK WILL START

3/15/00

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#	1625'	500sx - Circulate
11"	8-5/8" K55	32#	4500'	1000sx - Circulate
7-7/8"	5-1/2" N80-S95	17#	12400'	665sx - EST TOC 9000'

already called David on 1/25/99

ROSWELL CONTROLLED WATER BASIN

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

David Stewart

TITLE

DAVID STEWART
REGULATORY ANALYST

DATE

1/21/00

(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:

Assistant Field Manager,
Lands And Minerals

FEB 22 2000

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

ATTACHMENT 3160-3
OXY USA Inc.
OXY Liberator Federal #1
SEC 35 T16S R31E
Eddy County, NM

PROPOSED TD: 12400' TVD

BOP PROGRAM: 0' - 625' None

625' - 4500' 11" 5M blind and pipe rams with 5M annular preventer.

4500' - 12400' 11" 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 625'

Intermediate: 8-5/8" OD 32# K55 ST&C new casing from 0-4500'

Production: 5-1/2" OD 17# N80-S95 LT&C new casing from 0-12400'
N80-8800' S95-3600'

CEMENT: Surface - Circulate cement with 350sx 35:65 POZ/C with 6% Bentonite + 2% CaCl_2 + .25#/sx Cello-Seal followed by 150sx Cl C with 2% CaCl_2 .

Intermediate - Circulate cement with 840sx 35:65 POZ/C with 6% Bentonite + 2% CaCl_2 + .25#/sx Cello-Seal followed by 165sx Cl C with 2% CaCl_2 .

Production - Cement with 565sx 15:61:11 POZ/C/CSE with .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 100sx Cl C with .7% FL-25. Estimated top of cement is 9000'.

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

MUD: 0 - 625' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage.
Wt 8.7-9.2 ppg, Vis 32-34 sec

625' - 4500' Fresh/*Brine water. Lime for pH control (10.0-10.5). Paper for seepage.
Wt 8.3-9.0/10.0-10.1ppg, Vis 28-29 sec
*Fresh water will be used unless chlorides in the mud system increases to 20000PPM.

4500' - 9500' Fresh water. Lime for pH control (9-9.5).
Paper for seepage.
Wt 8.3-8.5 ppg, Vis 28-29 sec

9500' - 11000' Cut brine. Lime for pH control (10-10.5).
Wt 9.6-10.0 ppg, Vis 28-29sec

11000' - 12400' Mud up with an Duo Vis/Flo Trol mud system.
Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc

