

N. M. OIL

SUBMIT IN

LOCATE

ARTESIA, NM

ONE ON REVERSE SIDE

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1996

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

2. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

3. NAME OF OPERATOR

OXY USA Inc.

16696

4. ADDRESS AND TELEPHONE NO.

P.O. BOX 50250 MIDLAND, TX 79710-0250

915-685-5717

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

At surface

1980 FSL 660 FEL NESE (I)

At proposed prod. zone

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

9 miles southeast of Artesia, NM

7. DISTANCE FROM PROPOSED*

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

660'

8. NO. OF ACRES IN LEASE

320

9. NO. OF ACRES ASSIGNED TO THIS WELL

320

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

N/A

11. PROPOSED DEPTH

9700'

12. ROTARY OR CABLE TOOLS

R

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

PROPOSED: 3555'

14. APPROX. DATE WORK WILL START*

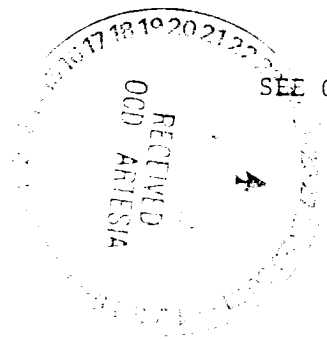
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15.

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	32#	1800'	515sx - Circulate
7-7/8"	4-1/2" N80	11.6#	9700'	705sx - TOC-5900'

WITNESS



SEE OTHER SIDE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

Posted 1-14-00

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.

SIGNATURE

David Stewart

TITLE

DAVID STEWART
REGULATORY ANALYST

DATE

11/23/99

(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:

APPROVED BY

TITLE

Assistant Field Office Manager,
Lands and Minerals

DATE

DEC 23 1999

*See Instructions On Reverse Side

ATTACHMENT 3160-3
OXY USA Inc.
OXY Harvester Federal #1
SEC 26 T17S R27E
Eddy County, NM

PROPOSED TD: 9700' TVD

BOP PROGRAM: 0' - 400' None
400' - 1800' 11" 5M blind and pipe rams with 5M annular preventer.
1800' - 9700' 11" 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 0-1800'
Production: 4-1/2" OD 11.6# N80 LT&C new casing from 0-9700'

CEMENT: Surface - Circulate cement with 160sx 35:65 POZ/C with 6% Bentonite + 2% CaCl₂ + .25#/sx Cello-Seal followed by 200sx Cl C with 2% CaCl₂.

Intermediate - Circulate cement with 315sx 35:65 POZ/C with 6% Bentonite + 2% CaCl₂ + .25#/sx Cello-Seal + 5#/sx Gilsonite followed by 200sx Cl C with 2% CaCl₂.

Production - Cement with 630sx 15:61:11 POZ/C/CSE with .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 75sx Cl C with .7% FL-25.

Estimated top of cement is 5900'.

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' - 1800' 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
1800' - 6000' Fresh water. Lime for pH control (9-9.5). Paper for seepage. Wt 8.3-8.5 ppg, Vis 28-29 sec
6000' - 8500' Cut brine. Lime for pH control (10-10.5). Wt 9.6-10.0 ppg, Vis 28-29sec
8500' - 9700' Mud up with an Duo Vis/Flo Trol mud system. Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc

FORN TENSOR
CS 1-2 ACN