

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-21930

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Cities Service Oil Company

3. ADDRESS OF OPERATOR
 Box 1919 - Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 660' FSL & 1980' FWL of Sec. 20-T21S-R27E, Eddy Co., New Mexico
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Appx. 2 1/2 miles NE of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 660' S

16. NO. OF ACRES IN LEASE
 4932 acres

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.
 5232' NE

19. PROPOSED DEPTH
 11730'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3183' GR

22. APPROX. DATE WORK WILL START*
 Aug. 15, 1976

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|-------------------------|
| 17-1/2" | 13-3/8" | 48# | 400' | 750 sacks (circulated) |
| 12-1/4" | 8-5/8" | 24# & 32# | 3000' | 1000 sacks (circulated) |
| 7-7/8" | 5-1/2" | 17 & 20# | 11730' | 750 sacks (TC @ 8200') |

It is proposed to drill this well to a T. D. of 11730' and test the Morrow formation.

The blowout prevention program is as follows:

1. One set of blind rams.
2. One set of drill pipe rams.
3. One Hydril.
4. One rotating head.

RECEIVED
 AUG 20 1976
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

OCT 6 1976
 O. C. C.
 ARTESIA, OFFICE

The acreage dedicated to this well is not dedicated to any gas purchaser.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 [Signature] TITLE Region Operation Manager DATE August 2, 1976

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS VALID FOR _____ MONTHS FROM DATE ISSUED. IT EXPIRES _____

DECLARED WATER BASIN

*See Instructions On Reverse Side

NOTHING SHOWN IN SUBSEQUENT TIME TO BE CIRCULATED