

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

ARWOOD LTD.

## ADDRESS OF OPERATOR

Box 90, Dal, Texas 71220

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

At surface 1790' from north 330' from west

At proposed prod. zone  
The footage from north  
Same

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

8 Miles NE Loco Hills

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

330'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

990'

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

3300'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3851 GR

## 12. COUNTY OR PARISH

Eddy

## 13. STATE

N.M.

## 10. FIELD NO. POOL, OR W

X Square Lake

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

30 T16S, R31E

## 9. WELL NO.

10

## D. NAME DESIGNATION AND SERIAL NO.

NM 07781

## 8. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 6. FARM OR LEASE NAME

Loe Federal

## 10. FIELD NO. POOL, OR W

X Square Lake

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

30 T16S, R31E

## 12. COUNTY OR PARISH

Eddy

## 13. STATE

N.M.

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 22. APPROX. DATE WORK WILL START\*

7-5-72

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4	8 5/8	24#	300'	100 SX
6 1/4	5 1/2	14#	3300'	200 SX

Propose to drill above well with rotary tools to not more than 3300'.  
Run casing to TD. Perforate and frac Premier sands. These producing  
zones are associated with waterflood operation on Loe Federal.  
The gas on this project is depleted so no blow out preventer will be  
necessary. At the end of the wells productive life the location will  
be back filled, leveled and cleaned.

PROPOSED OPERATIONS WILL NOT  
AFFECT ENVIRONMENT SIGNIFICANTLY

RECEIVED

JUL 17 1972

O. C. C.

ARTESIA, OFFICE

THIS APPROVAL IS RESCINDED IF OPERATIONS  
ARE NOT COMMENCED WITHIN 3 MONTHS.

EXPIRES

10-12-72

15. SHOW 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

B. H. Hays

TITLE

Supt

DATE

7-5-72

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

JUL 12 1972

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DISTRICT ENGINEER

DATE

JUL 12 1972

Originally approved 12-22-71

\*See Instructions On Reverse Side

NE OIL CONSERVATION COMMISSION  
WELL LOCATION AND DEDICATION PLAT

RECEIVED

Form C-102  
Supersedes C-128  
Effective 1-1-61

JUL 17 1972

All distances must be from the outer boundaries of the Section.

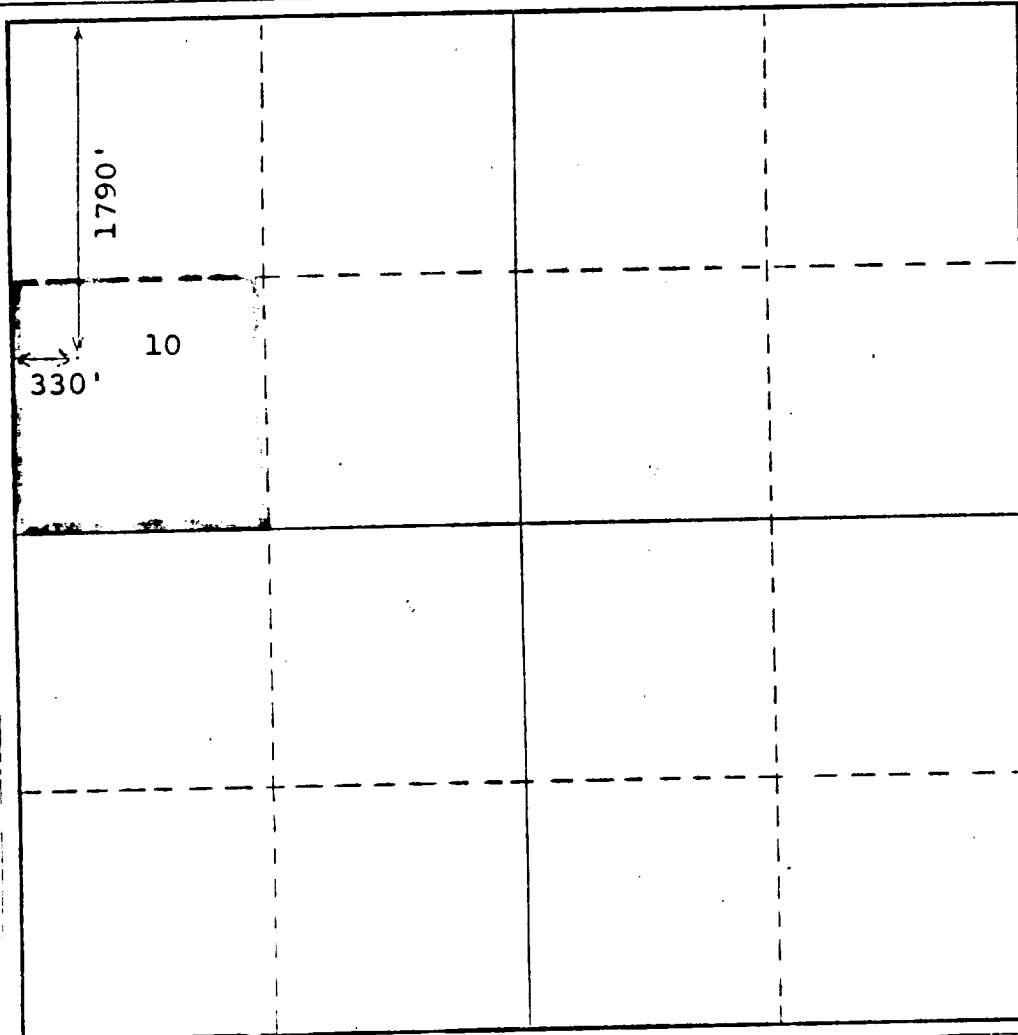
Owner <b>ARWOOD LTD</b>		Lease <b>Loe <del>Federal</del></b>		Well No. <b>O. C. C. 10</b>	
Section <b>E</b>	Township <b>30</b>	Range <b>16S</b>	County <b>31E</b>	County <b>Eddy County, New Mexico</b>	
Section Location of Well: <b>1790'</b> feet from the <b>north</b> line and <b>330</b> feet from the <b>west</b> line					
Ground Level Elev.	Producing Formation <b>Grayburg-Sandres</b>		Pool <b>Square Lake</b>		Dedicated Acreage: <b>40 30.58</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*B. D. Hope*

Name

Position

Company

**ARWOOD LTD**

Date

**12-19-71**

I hereby certify that the well location shown on the plat was obtained from field notes of actual surveys made by me under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

**12-13-71**

Registered Professional Engineer and/or Land Surveyor

**N. RAYMOND LAMB**

Certificate No.

**929**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0