

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
 Phoenix Resources Company ✓

3. ADDRESS OF OPERATOR
 Suite 290 One Marienfeld Place Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 Unit "J" 1980' FEL, 1700' FSL, Sec. 20, T-19-S R-21-E
 At proposed prod. zone
 Unit "J" 1980' FEL, 1700' FSL, Sec. 20, T-19-S R-21-E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 12 miles SW of Hope New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1980

16. NO. OF ACRES IN LEASE
 2452.51

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.
 2600 SE

19. PROPOSED DEPTH
 7300'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4380 GR

22. APPROX. DATE WORK WILL START*
 Immediately

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# | 350' | 500 sacks |
| 12 1/4" | 8 5/8 | 24# | 1800' | 1200 sacks |
| 7 7/8" | 4 1/2 | 11.60# | 7300' | 500 sacks |

RECEIVED
AUG 28 1978
O. C. C.
ARTESIA, OFFICE

This is to request permission to drill deeper to approximately 8200' to the Devonian. All tests ran in the Morrow formation @ 7300' show no sign of gas or oil. Plans are to drill to the devonian and if tests indicate zones productive of hydrocarbons, 4 1/2" casing will be set at 7300' expected to be at 8200'.

Approval to drill this well given 6-23-78.

RECEIVED
AUG 25 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 *J.W. Mulley* TITLE Agent DATE 8-21-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 (Orig. Sgd.) ALBERT R. STALE ACTING DISTRICT ENGINEER
 APPROVED BY _____ TITLE _____ DATE AUG 25 1978
 CONDITIONS OF APPROVAL, IF ANY: