

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN F
OTHER INSTRUCTIONS ON
reverse side
88210

C/SF

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
 Southern Union Exploration Company of Texas

RECEIVED

3. ADDRESS OF OPERATOR
 1217 Main St, Suite 400, Dallas, Texas 75202

APR 23 1982

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 880' FSL & 1880' FWL
 At proposed prod. zone

O. C. D.
 ARTESIA, OFFICE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7 miles southwest of Lake Wood, NM

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 990

16. NO. OF ACRES IN LEASE
 1120

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.
 5700

19. PROPOSED DEPTH
 10,500

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3695' GL

22. APPROX. DATE WORK WILL START*
 4/8/82

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	362	375 sacks
12 1/4	8 5/8	24	2500	1125 sacks
7 7/8	4 1/2	11.6	10,450	550 sacks

The Morrow formation in this is non-productive and Southern Union Exploration Company of Texas feels that there is a possibility that the Strawn formation may be productive. SXT proposes to set a CIBP above the Morrow perms (10,013-10,117') at 9963' and dump 35' of cement on top of the plug. We will then perforate the Strawn from 9300-9308' with 1 SPF using a casing gun. The well will then be acidized and tested, if the results are encouraging, the Strawn would then be fractured.

A verbal approval for this procedure was received from Arando Lopez on 4/7/82 by Martin Boggs (Drilling and Production Superintendent for SXT).

APR 23 1982

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. SIGNER Ronald P. [Signature] TITLE Drlg & Prod. Engineer DATE 4/15/82

(This space for Federal or State office use)
APPROVED
 PERMIT NO. (Orig. Sgd.) PETER W. CHESTER
 APPROVED BY APR 23 1982
 CONDITIONS OF APPROVAL, IF ANY:
 FOR
JAMES A. GILLHAM
 DISTRICT SUPERVISOR

APPROVAL DATE _____ TITLE _____ DATE _____