

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

SUBMIT IN TR DATE
 NM OIL & GAS COMMISSION
 (Oil Conservation Commission)
 reverse side
 Artesia, NM 88210

5. LEASE DESIGNATION AND NUMBER
 NM 0556285 **RECEIVED**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 MAY - 3 1982

7. UNIT AGREEMENT NAME
 O. C. D.

8. FARM OR LEASE NAME
 Exxon Federal

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 25, T10S, R25E

12. COUNTY OR PARISH
 Eddy

13. STATE
 New Mexico

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 880 S 1880 W
 660' EEL & 1980' FSL
 At proposed prod. zone same

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

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

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 5700'

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

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|---------------------|
| 17 1/4" | 13 3/8" | 48 | 362' | 375 sx (circulated) |
| 12 1/4" | 8 5/8" | 24 | 2500' | 925 sx (circulated) |
| 7 7/8" | 4 1/2" | 11.6 | 10,450' | 550 sx |

Well was originally perforated in the Morrow from 10,013-10,117'. A CIBP has been set @ 9963' w/35' of cement on top. The Strawn was perforated and tested from 9300-9308'. The following procedure for plugging and abandonment was discussed with and given verbal approval by Hernandez Lopez on 4/16/82. We propose to set a CIBP at 9250'. We will attempt to recover 4 1/2" casing from 8000'. A 100' plug will be placed across the 4 1/2" casing stub with 50' of cement in the casing and 50' of cement in the open hole. If we recover enough 4 1/2" casing to expose the Bone Springs, a 50' plug will be placed across the Bone Springs which has a top at 4545'. A 100' plug, with 50' of cement in the casing and 50' of cement in the open hole, will be placed across the 8 5/8" casing shoe. At this point, the Rustler formation may be tested from 780-790'. If this is unsuccessful, the Rustler will be plugged and a 15 sack plug will be placed at the surface.

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 Pat S. Hanell TITLE Drlg & Prod. Engineer DATE April 22, 1982

(This space for Federal or State agency use)

PERMIT NO. (Orig. Sgd.) **PETER W. CHESTER** APPROVAL DATE _____

APPROVED BY **APR 30 1982** TITLE _____ DATE _____

FOR **JAMES A. GILLHAM**
 DISTRICT SUPERVISOR