

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-21074

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO. **NM-12878**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME **NA**

7. UNIT AGREEMENT NAME **NA**

8. FARM OR LEASE NAME **Shelby Federal**

9. WELL NO. **#2**

10. FIELD AND POOL, OR WILDCAT **Wildcat**

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA **S/2 Sec 12, Twp 22S, R-24 East**

12. COUNTY OR PARISH **ddy** 13. STATE **New Mexico**

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR **SOUTHERN UNION PRODUCTION COMPANY**

3. ADDRESS OF OPERATOR **Dallas, Texas 75206**
Suite 1700 Campbell Centre, 8350 North Central Expressway

4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements.)
 At surface **1900' PSL and 2200' PNL**
 At proposed prod. zone **same 10,700'**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx. 17 miles West of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **1900'**

16. NO. OF ACRES IN LEASE **320**

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. **10,700'**

19. PROPOSED DEPTH **10,700'**

20. ROTARY OR CABLE TOOLS **Rotary**

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

22. APPROX. DATE WORK WILL START* **Upon Approval**

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JAN 14 1974

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	1,600'	800
7-7/8"	5-1/2"	15.5# & 17.0#	10,700'	300

We propose to test the Morrow around 10,500'.
 We will have blind pipe and annular blowout preventors capable of containing any surface pressures.
 We do not plan to deviate the hole.

- a. Drill to 1600'. Set 8-5/8" casing, cmt w/800 sx
- b. Drill to 10,700'. Set 5-1/2" casing, cmt w/300 sx
- c. Set Tubing in packer above zone to test.
- d. Perforate, test and stimulate as required.

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DEC 14 1973
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 Neil W. Neldon TITLE Mgr., Drilling and Prod. DATE December 10, 1973

(This space for Federal or State office use)

PERMIT NO. **ADMITTED**
 APPROVED BY **L. BEEKMAN**
 CONDITIONS OF APPROVAL, IF ANY:

SUBJECT TO ATTACHED DEEP WELL CONTROL REQUIREMENTS DATED **JUN 12 1973** APPROVAL DATE

DECLARED WATER BASIN

CEMENTING AND THE CASING MUST BE CIRCULATED

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
 EXPIRES **APR 11 1974**

*See Instructions On Reverse Side

NOTIFY URS IN SUFFICIENT TIME TO... CASING

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, notations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been, directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.