

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
Southern Union Production Company

3. ADDRESS OF OPERATOR
IPX P. O. Box 808, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface: **1450 ft. from the south line and 1115 ft. from the west line.**
 At proposed prod. zone: **Same as above.**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 miles Northwest of Ojito, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1450 ft.
1115 ft.

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
320 Dakota

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.
2640 ft.

19. PROPOSED DEPTH
8475

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7348 ft. Ungraded Ground Level

22. APPROX. DATE WORK WILL START*
June 25, 1969

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/8"	10-3/4"	32.75	500 ft.	3000 sacks
9-7/8"	7-5/8"	26.40	4150 ft.	250 sacks
6-3/4"	5-1/2"	15.50	4050 - 8475 ft.	750 cu. ft. (liner)

We propose to drill a well to be dually completed in the Dakota and Mesaverde formations. Anticipated depth 8475 feet.

- Casing Program:**
 Surface: 10-3/4", 32.75#, H-40 set at 500 ft. Cemented w/300 sacks.
 Intermediate: 7-5/8", 26.40#, J-55 set at 4150 ft. Cemented w/250 sacks.
 Liner: 5-1/2", 15.50#, J-55 set at 4000 ft. to T.D. of 8475 ft. and cemented with approx. 750 cu. ft. of cement.
- Well will be mud drilled from surface to 4150 ft. and gas drilled from 4150 ft. to T.D.
- Mesaverde and Dakota zones will be sand fraced to stimulate production.
- Escher Model "D" 5-1/2" production packer will be set at approx. 8100 ft. R.K.B.
- 1-1/2", E.U.E., 2.90# JON Tbg. will be run to Dakota and landed approx. 8200 ft. R.K.B.
- 1-1/2", Integral joint, 2.75#, JON Tbg. will be run to Mesaverde and landed at approx. 5650 ft. R.K.B.

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. ORIGINAL SIGNED BY
 SIGNED **B. R. Vanderslice** TITLE **Area Superintendent** DATE **June 17, 1969**

(This space for Federal or State office use)

PERMIT NO. _____
 APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY: _____
JERRY W. [unclear]
 DISTRICT ENGINEER

APPROVAL DATE _____ TITLE _____
RECEIVED
JUN 19 1969
 U. S. GEOLOGICAL SURVEY
 DURANGO, COLO.
 See Instructions On Reverse Side

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, locations 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.

