

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

P. O. Box 808, FARMINGTON, NEW MEXICO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 1055 FEET FROM SOUTH LINE AND 1775 FT. FROM WEST LINE

At proposed prod. zone

SAME AS ABOVE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12 MILES SOUTH OF FARMINGTON, NEW MEXICO

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

3505 FT.

16. NO. OF ACRES IN LEASE

2318

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.

3960 FT.

19. PROPOSED DEPTH

6260 FT.

20. ROTARY OR CABLE TOOLS

ROTARY TOOLS

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

5957 UNGRADED GROUND LEVEL

22. APPROX. DATE WORK WILL START*

OCTOBER 5, 1964

23.

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"	24.0#	300 FT.	200 BAGS
7-7/8"	4-1/2"	10.50#	6260 FT.	1900 CUBIC FT.

WE PROPOSE TO DRILL A WELL TO THE DAKOTA FORMATION. ANTICIPATED TOTAL DEPTH 6260 FEET R.K.B.

1. CASING PROGRAM: SURFACE - 8-5/8", 24.0#, J-55 SET AT 300 FEET W/200 BAGS CEMENT.
PRODUCTION - 4-1/2", 10.50#, J-55 SET AT TOTAL DEPTH OF 6260 FT.1ST STAGE CEMENTED W/300 BAGS. STAGE COLLAR SET UNDER
MEBAVERDE AND CEMENTED W/1600 CUBIC FT. OF CEMENT.

2. ROTARY TOOLS WILL BE USED FROM SURFACE TO TOTAL DEPTH.

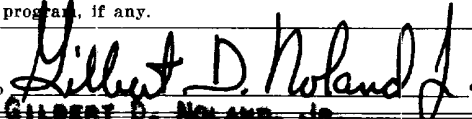
3. WELL WILL BE SAND FRACED TO STIMULATE PRODUCTION.

4. 1-1/2", E.U.E., 2.90# JCW TBS. WILL BE SET AT APPROX. 6100 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.

SIGNED



TITLE

DRILLING SUPERINTENDENT

DATE

SEPTEMBER 29, 1964

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NOTE: COMMUNITIZATION AGREEMENT FOR W/2 OF SECTION 2 IS IN THE PROCESS OF BEING FILED.

*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.

Well Location in the State of New Mexico

SEPTEMBER 29, 1964

Section A

Operator **Southern Union Production Company** **RICHARDSON**
 Well No. **3** N **2**
 Located **1055** Feet From **SOUTH** Line **1775** Feet From **WEST** Line
 County **San Juan** G. L. Elevation **5957.0** Dedicated Acres **W 300-319.61** Acres
 Name of Producing Formation **Dakota** Pool **BASIN DAKOTA**

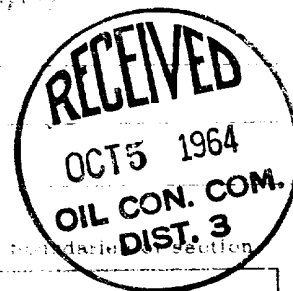
1. Is the Operator the only owner in the dedicated acreage shown on this plat below?
 Yes ☒ No ☐
2. If the answer to question one is "No", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ☒ No ☐ If so, what is the type of Consolidation?

COMMUNITIZATION AGREEMENT

3. If the answer to question two is "No", list all the owners and their respective interests below:

Owner

Acres Owned



Section B

Note: All distances must be from outer boundary of Section

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Southern Union Production Co.

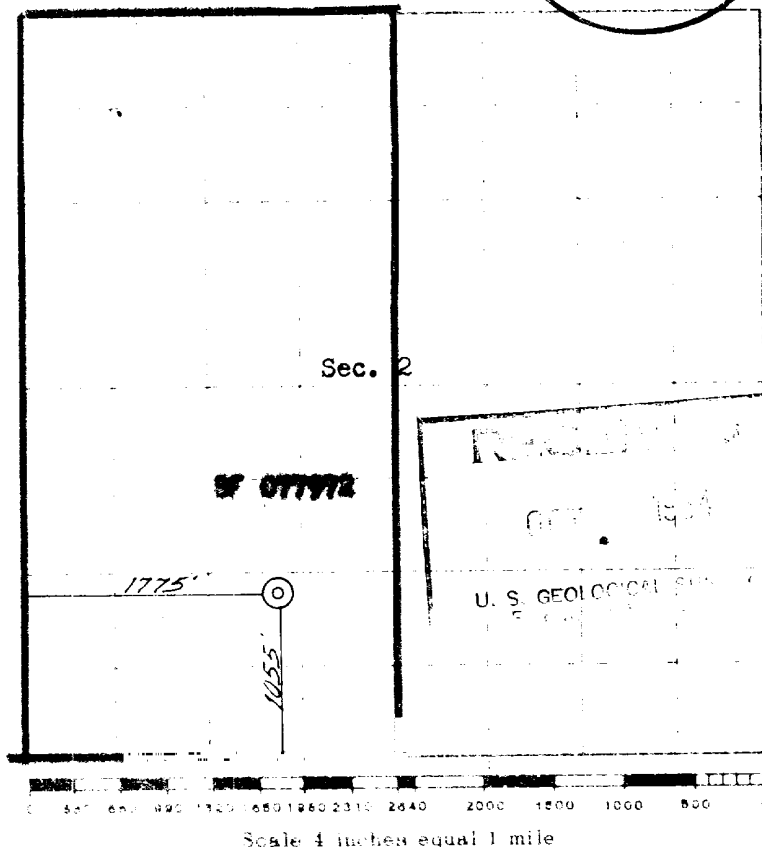
Lilbert D. Noland Jr.
LILBERT D. NOLAND, JR.

P. O. Box 808 (Address)

FARMINGTON

NEW MEXICO

Ref: GLO plat dated 19 July 1915



This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed September 28, 1964

James P. Leese
 Registered Professional Engineer and/or Land Surveyor
James P. Leese, N. Mex. Reg. No. 1463