

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 1560 FEET FROM NORTH LINE AND 1850 FEET FROM EAST LINE

At proposed prod. zone

SAME

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

28 MILES SOUTH OF BLOOMFIELD, NEW MEXICO

15. DISTANCE FROM PROPOSED*

1080

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

18. DISTANCE FROM PROPOSED LOCATION*

335 FT.

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

PICTURED CLIFFS WELL

16. NO. OF ACRES IN LEASE

562.13

19. PROPOSED DEPTH

6760

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

6270 UNGRADED GROUND

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320.

20. ROTARY OR CABLE TOOLS

ROTARY TOOLS

22. APPROX. DATE WORK WILL START*

OCTOBER 1, 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.	250 BAGS
7-7/8"	5-1/2"	17.0#	6760	1600 CUBIC FEET

WE PROPOSE TO DRILL A WELL TO THE DAKOTA FORMATION. ANTICIPATED TOTAL DEPTH 6760. WELL WILL BE DUALY COMPLETED IN THE MESAVERDE AND DAKOTA FORMATIONS.

1. CASING PROGRAM: SURFACE - 8-5/8", 24.0#, J-55 SET AT 300 FT., CEMENTED 250 BAGS. PRODUCTION - 5-1/2", 17.0#, J-55 SET AT TOTAL DEPTH 6760 FT. RKB. 1ST STAGE CEMENTED WITH 350 CUBIC FEET, STAGE COLLAR SET UNDER MESAVERDE AT 4760 AND CEMENTED WITH 350 CUBIC FEET OF CEMENT. STAGE COLLAR SET UNDER PICTURED CLIFFS AT 2300 AND CEMENTED WITH 900 CUBIC FEET CEMENT.

TUBING - 1-1/2" E.U.E., 2.90# JCN SET AT APPROX. 6650 FEET.

2. ROTARY TOOLS WILL BE USED TO MUD DRILL HOLE FROM SURFACE TO TOTAL DEPTH.
3. WELL WILL BE SAND FRACED TO STIMULATE PRODUCTION.

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

B. R. Vandervliet
B. R. VANDERVLIE

TITLE

AREA SUPERINTENDENT

DATE

SEPTEMBER 18, 1964

(This space for Federal or State office use)

PERMIT NO.

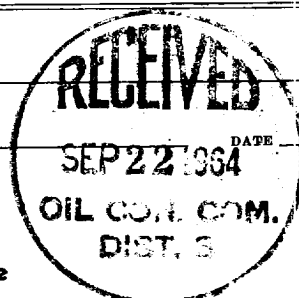
APPROVAL DATE

APPROVED BY

ts

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*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 plat, 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.

NEW MEXICO OIL CONSERVATION COMMISSION
Well Location and Acreage Dedication Plat

Section A.

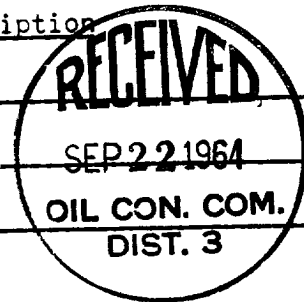
Date September 18, 1964

Operator SOUTHERN UNION PRODUCTION CO. Lease STARR
Well No. 3 Unit Letter G Section 5 Township 26 N Range 8W NMPM
Located 1560 Feet From north Line, 1850 Feet From east Line
County San Juan G. L. Elevation _____ Dedicated Acreage N $\frac{1}{2}$ (200) 321.56 Acres
Name of Producing Formation Dakota Pool Basin - Dakota

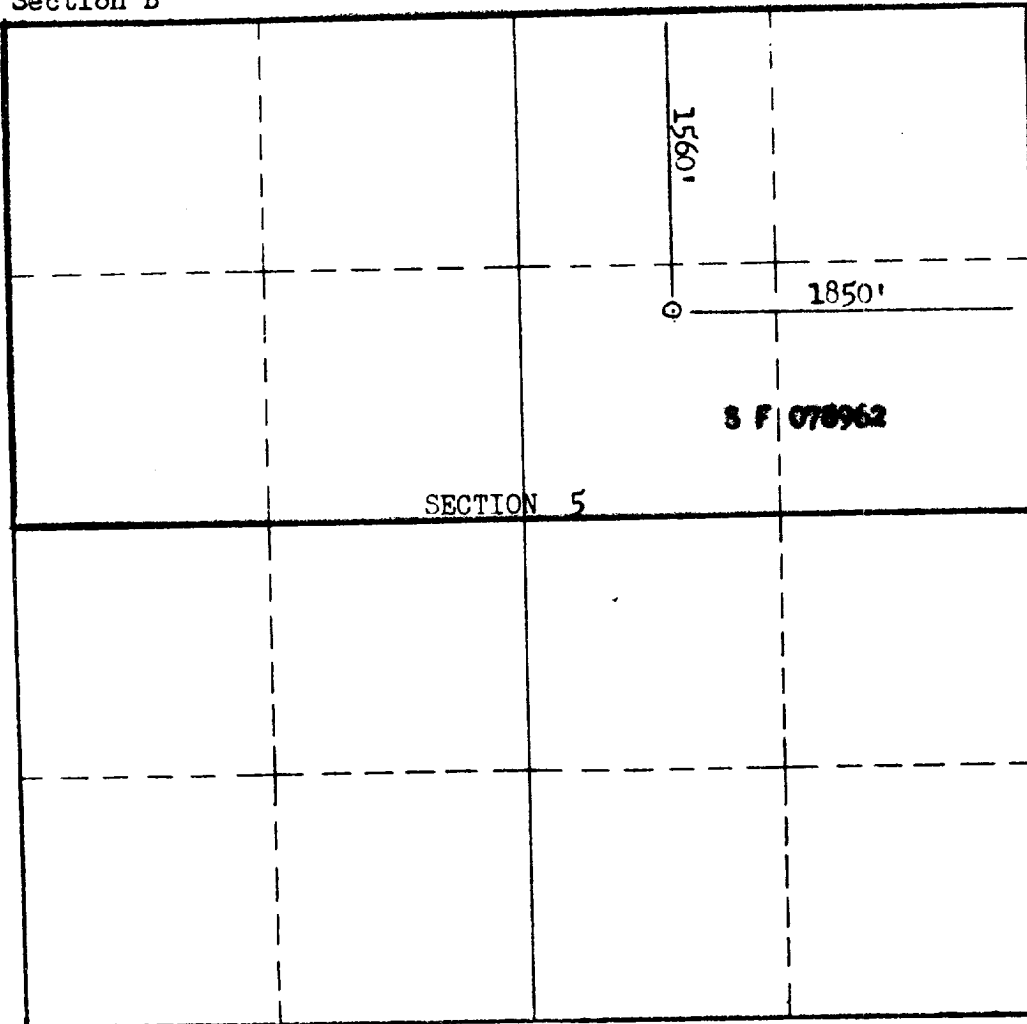
1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
Yes XX No _____.
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes _____ No _____. If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description



Section B



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.
(Operator)

(Representative)
B. R. VANDERLIGE
P.O. Box 808, Farmington, N.M.
Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed Sept. 16, 1964
Stephen H. Kinney
STEPHEN H. KINNEY

Registered Professional
Engineer and/or Land Surveyor

Certificate No. 803

(See instructions for completing this form on the reverse side)