

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

1800 FEET FROM SOUTH LINE & 1695 FEET FROM WEST LINE.

At proposed prod. zone

SAME AS ABOVE

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

6 MILES EAST OF AZTEC, NEW MEXICO

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

945 FT.

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.

800 FT.

19. PROPOSED DEPTH

7500 FT.

20. ROTARY OR CABLE TOOLS

ROTARY TOOLS

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

6251 FEET; UNGRADED GROUND LEVEL

22. APPROX. DATE WORK WILL START*

NOVEMBER 5, 1964

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10-3/4"	32.75#	300 FT.	250 BAGS
9-7/8"	7-5/8"	26.40#	3000 FT.	1200 CUBIC FT.
6-3/4"	5"	15.0#	7500 FT.	750 CUBIC FT.

WE PROPOSE TO DRILL A WELL TO BE FULLY COMPLETED IN THE DAKOTA AND MESAVERT FORMATIONS -
ANTICIPATED TOTAL DEPTH IS 7500 FT. R.K.B.

1. PROPOSED CASING PROGRAM:

SURFACE: 10-3/4", 32.75#, H-40 SET AT 300 FT. CEMENTED TO SURFACE W/250 BAGS.

INTERMEDIATE: 7-5/8", 26.40#, J-55 SET AT 3000 FT. CEMENTED TO SURFACE W/1200 Cu. FT.

PRODUCTION: 5", 15.0#, J-55 SET AT TOTAL DEPTH OF 7500 FT. R.K.B. 1st STAGE CEMENTED
W/250 CUBIC FT. OF CEMENT. STAGE COLLAR SET UNDER MESAVERT AT APPROX.
5250 FT. AND CEMENTED W/500 CUBIC FT. OF CEMENT.

2. ROTARY TOOLS WILL BE USED TO MUD DRILL HOLE FROM SURFACE TO INTERMEDIATE SQA. POINT OF
3000 FT.

3. ROTARY TOOLS WILL BE USED TO GAS DRILL 6-3/4" HOLE FROM 3000 FEET TO TOTAL DEPTH OF
7500 FT. R.K.B.

4. MESAVERT AND DAKOTA FORMATIONS WILL BE PERFORATED AND SAND FRACED TO STIMULATE PRODUCTION

5. A BAKER 5" MODEL "D" PRODUCTION PACKER WILL BE SET AT APPROX. 7000 FT. R.K.B. OVER

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
prevention program, if any.

24.

SIGNATURE

Gilbert D. Noland, Jr.
GILBERT D. NOLAND, JR.

TITLE

DRILLING SUPERINTENDENT

DATE

NOVEMBER 2, 1964

(This space for Federal or State office use)

PERMIT NO. _____

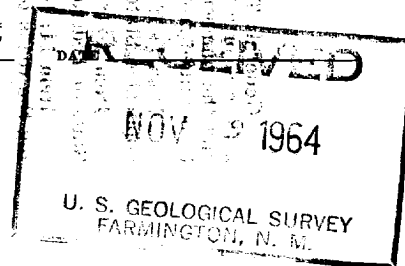
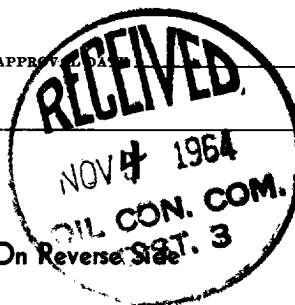
APPROVED BY _____

APPROVED BY _____

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 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.

6. 1-1/2", Non upset, 2.75#/FT. JOH TUBING WILL BE RUN TO DAKOTA AND LANDED AT APPROXIMATELY 7300 FT. B.K.B.
7. 1-1/4", 2.30#, JOH TUBING WILL BE RUN TO MESAVENDE AND LANDED AT APPROXIMATELY 5000 FT. B.K.B.

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

November 2, 1964

Section A.

FEDERAL FILING

Operator SOUTHERN UNION GAS COMPANY Lease
 Well No. 1 Unit Letter K Section 22 Township 30 NORTH Range 10 WEST NMPM
 Located 1800 Feet From SOUTH Line, 1695 Feet From WEST Line
 County SAN JUAN G. L. Elevation 6251 Dedicated Acreage 320
 Name of Producing Formation SANTA & MEADOWS Pool SANTA & MEADOWS

1. Is the operator the only owner in the dedicated acreage outlined on the 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 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.

Note: All distances must be from outer boundaries 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.

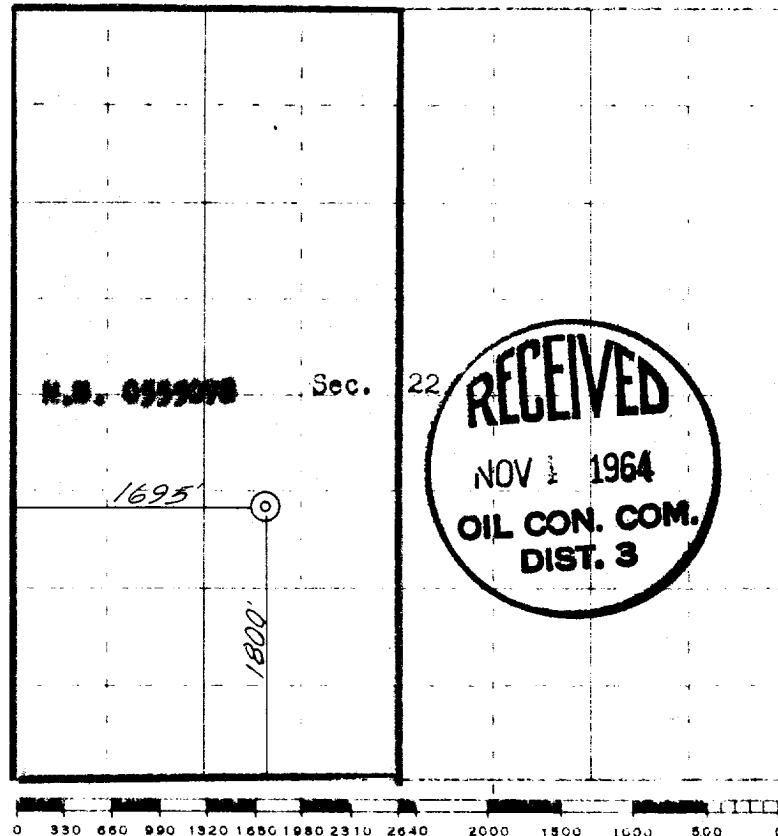
SOUTHERN UNION PRODUCTION COMPANY

Gilbert D. Noland (Operator)
GILBERT D. NOLAND, JR. (Representative)

P. O. Box 808 (Address)

FARMINGTON,

NEW MEXICO



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.

(Seal)

Date Surveyed October 30, 1964

Farmington, New Mexico

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