

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 608, Farmington, New Mexico

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

At surface

1520 feet from the South line and 960 ft. from the West line.

At proposed prod. zone

Same as above.

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

28 miles south of Bloomfield, New Mexico

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

960 ft.

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

518 ft.

16. NO. OF ACRES IN LEASE

320.30

19. PROPOSED DEPTH

6700 ft.

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary Tools

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

6060 ft. Ungraded Ground Level

22. APPROX. DATE WORK WILL START*

May 23, 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 sacks
7-7/8"	5-1/2"	17.0#/	6700 ft.	1600 cubic ft.

We Propose to drill a well to be dually completed in the Mesaverde and Dakota formations.
Anticipated total depth 6700 ft. R.L.B.

1. Casing Program:

Surface: 8-5/8", 24.0#, J-55 set at 300 ft. cemented w/250 sacks 2 1/2 S.C.

Production: 5-1/2", 17.0#, J-55 set at 6700 ft. 1st stage cemented w/350 cubic feet, Stage collar under Mesaverde at 4600 feet, cemented w/150 cubic feet. Stage Collar under Pictured Cliffs at 2150 feet, cemented w/900 cubic feet cement.

Tubing: 1-1/2", E.U.E., 2.90#, JOW to Dakota landed at approx. 6400 feet.

1-1/4", Integral Joint, 1.66# JOW to Mesaverde landed at approx. 4450 ft.

2. Rotary tools will be used from surface to total depth.

3. Well will be freed 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 Gilbert D. Noland, Jr. TITLE Drilling Supt. DATE May 23, 1964

(This space for Federal or State office use)

PERMIT NO. 40 APPROVAL DATEAPPROVED BY 40 TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.

I-149-Ind.-8468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Indian

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Indian

9. WELL NO.

5-8

10. FIELD AND POOL, OR WILDCAT

Basin Dakota and Blenden Mesaverde

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 30, T-27N, R-3W

N.M.P.M.

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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.

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date May 21, 1964

Operator SOUTHERN UNION GAS COMPANY Lease Navajo Indian
 Well No. 522 Unit Letter L Section 30 Township 27 NORTH Range 8 WEST NMPM
 Located 1520 Feet From the SOUTH Line, 960 Feet From the WEST Line
 County SAN JUAN G. L. Elevation 6080.0 Dedicated Acreage 320 16 320.80 Acres
 Name of Producing Formation Delphi & Navajo Pool Navajo Delphi & Navajo

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?

Yes AI 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:

OwnerLand Description

Section B.

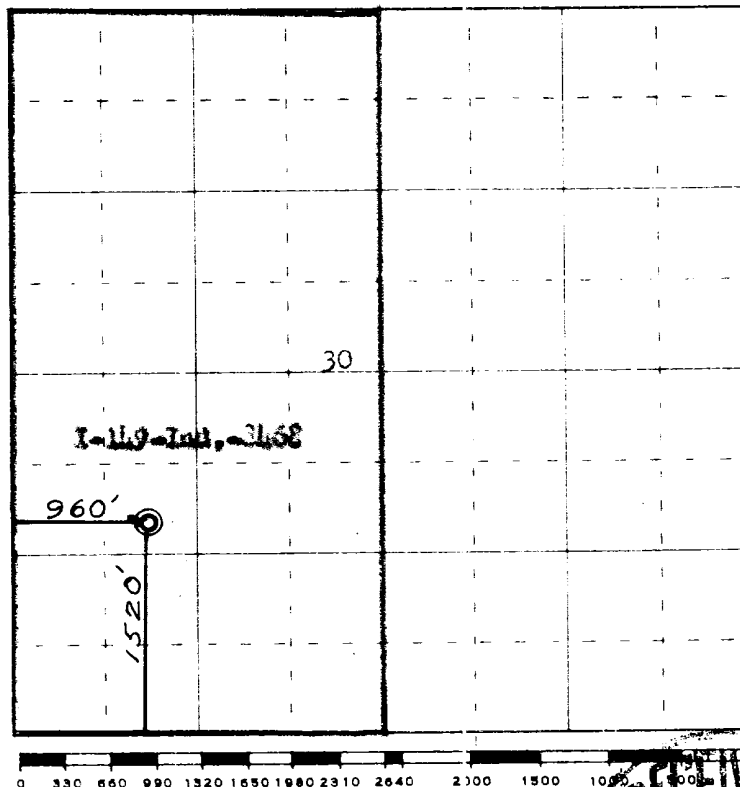
Note: All distances must be from outer boundaries of section.

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. Holand, Jr.
Gilbert D. Holand, Jr.

(Representative)
P. O. Box 666

(Address)
Farmington, New Mexico



Scale 4 inches equal 1 mile

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 to the best of my knowledge and belief.

Date Surveyed May 20, 1964

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

Farmington, New Mexico

RECEIVED
 MAY 25 1964
 OIL CON. COM.
 DIST. 3