

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-21757

## 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 87401

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

At surface

1850/N line &amp; 1470/W line.

At proposed prod. zone Same as above.

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

## 15. DISTANCE FROM PROPOSED\*

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

1470' - Lease Line

1470' Unit Line

## 16. NO. OF ACRES IN LEASE

2401.4

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

Approx. 2500 ft.

## 19. PROPOSED DEPTH

5820 ft.

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

6449 GL

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 13-3/4"      | 10-3/4"        | 40.5#           | 400 ft.       | 320 cubic feet     |
| 9-7/8"       | 7"             | 23.0#           | 3500 ft.      | 1390 cubic feet    |
| 6-1/4"       | 4-1/2" (Liner) | 10.5#           | 3350 - 5820   | 380 cubic feet     |

## 5. LEASE DESIGNATION AND SERIAL NO.

SF 078508

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Nordhaus

## 9. WELL NO.

8 1A

## 10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

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

Sec. 13, T-31N, R-9W

N.M.P.M.

## 12. COUNTY OR PARISH

San Juan

## 13. STATE

New Mexico

## 15. DISTANCE FROM PROPOSED\*

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

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It is proposed to drill a well to be completed in the Mesaverde formation. The well will be mud drilled thru the Pictured Cliffs and then gas drilled to T.D. Estimated total depth is 5820 feet. The Mesaverde will be sand fraced to stimulate production. Tubing size will be 2-1/16" set at approximately 5500 feet.

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

SIGNED

Jerry L. Lee

Jerry L. Lee

TITLE

Area Engineer

DATE

March 27, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

## 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**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

|  |   |                             |                                    |                           |   |
|--|---|-----------------------------|------------------------------------|---------------------------|---|
| Operator<br><b>SOUTHERN UNION PRODUCTION COMPANY</b>   |   |                             | Lease<br><b>NORDHAUS</b>           |                           | Well No.<br><b>8 1A</b>                                     |
| Unit Letter<br><b>F</b>  | Section<br><b>13</b>                    | Township<br><b>36 NORTH</b> | Range<br><b>9 WEST</b>             | County<br><b>SAN JUAN</b> |   |
| Actual Footage Location of Well:<br><b>1850</b> feet from the <b>1470'</b> line and <b>1470'</b> feet from the <b>1850'</b> line |   |                             |                                    |                           |   |
| Ground Level Elev.<br><b>6449</b>  | Producing formation<br><b>MESAVERDE</b> |                             | Tract<br><b>BLANCO - MESAVERDE</b> |                           | Dedicated Acreage: <b>314.08</b><br><b>W/2 314.98</b> Acres |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **Dedicated Acreage**

**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

**Original Signed By**

**Jerry L. Lee**

**Jerry L. Lee**

Position

**Area Engineer**

Company

**Southern Union Production**

Date

**March 27, 1975**

I hereby certify that the well location shown on this plat 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

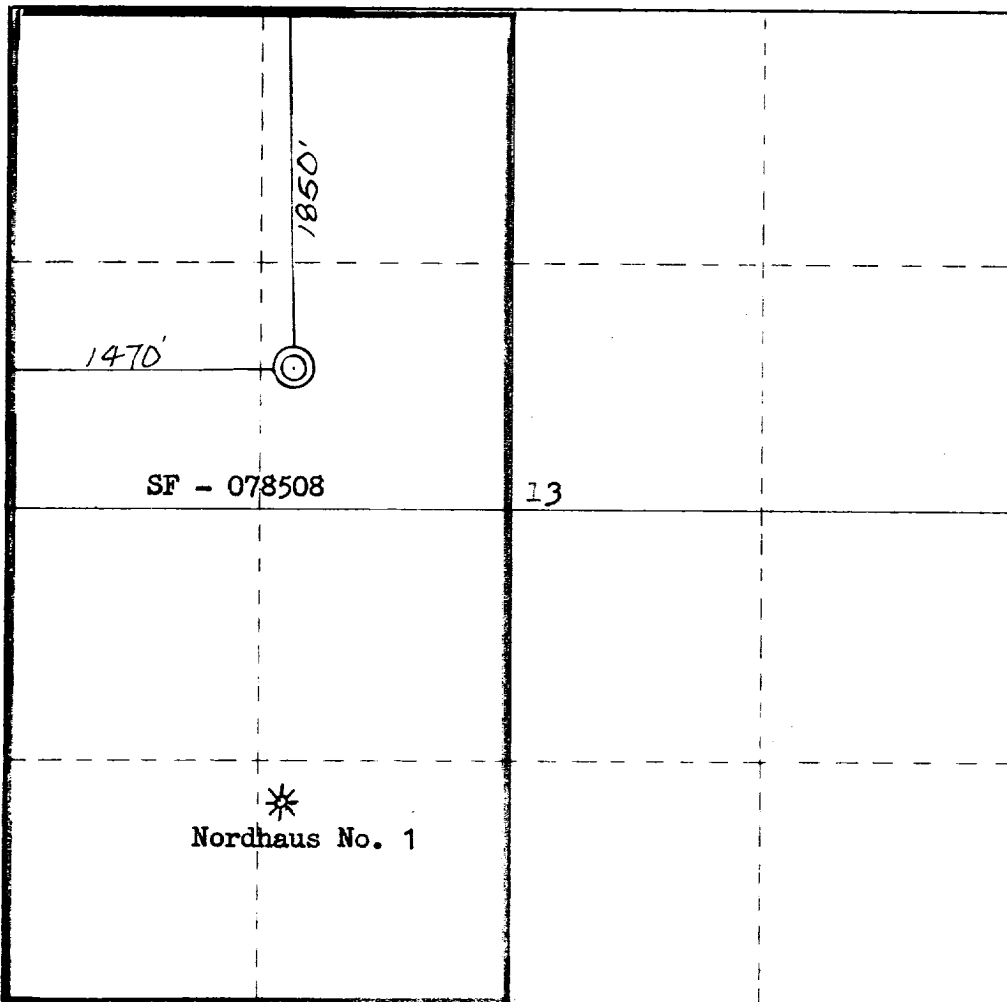
**March 1975**

Signature of Professional Engineer

**James B. Leese**

Signature of Surveyor

**1463**



SOUTHERN UNION PRODUCTION COMPANY

POST OFFICE BOX 808  
FARMINGTON, NEW MEXICO 87401

March 27, 1975

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

Dear Sir:

Southern Union Production Company proposes to drill its Nordhaus No. 8 / A Mesaverde well located 1850 feet from the North line and 1470 feet from the West line of Section 13, Township 31 North, Range 9 West, N.M.P.M., San Juan County, New Mexico.

Attached are maps showing the following data:

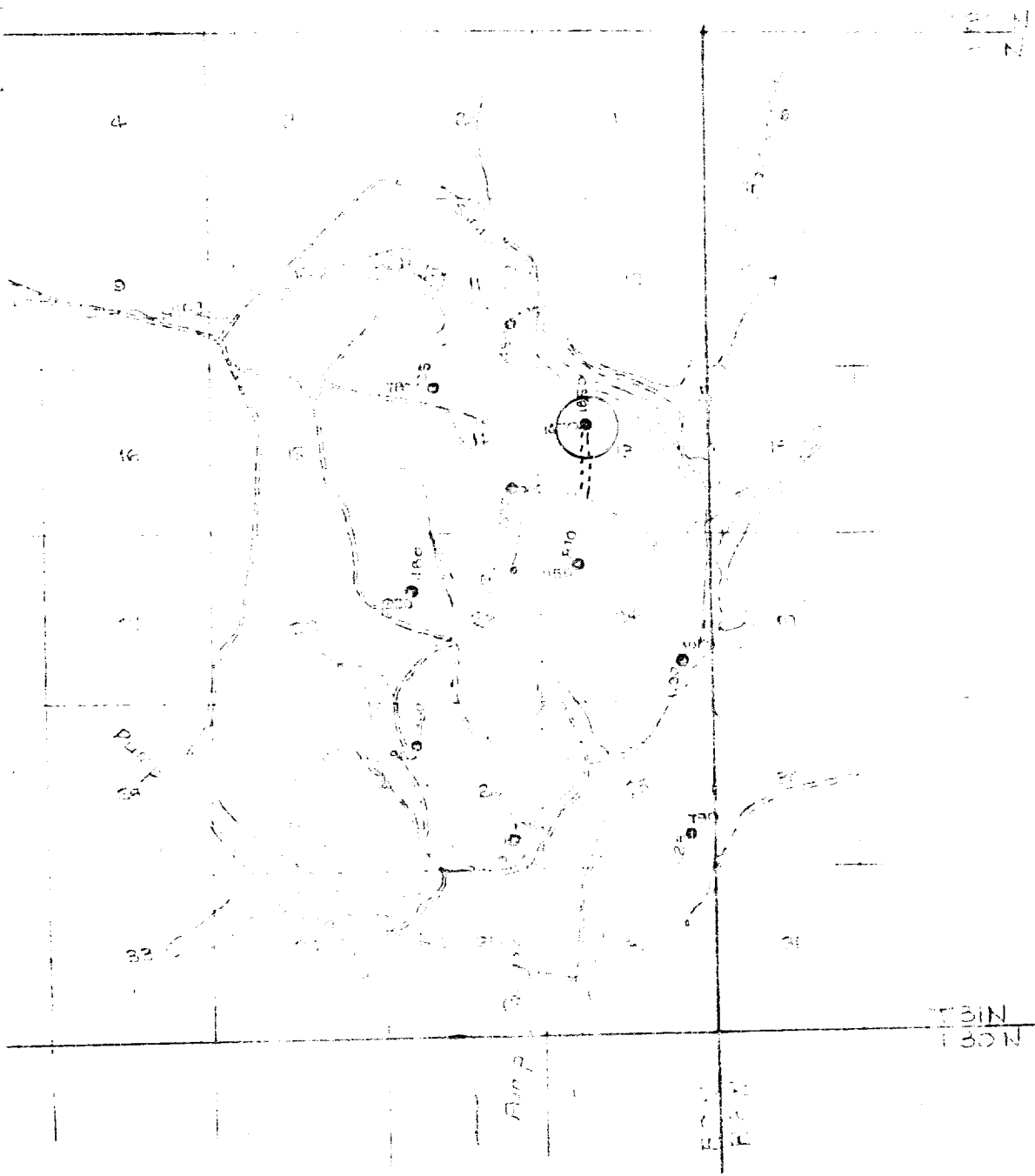
1. Existing roads.
2. Planned access roads.
3. Location of existing wells.
4. Lateral roads to well locations.
5. The location of tank batteries and flow lines are not presently known. After the well has been drilled and the location has been cleaned this equipment will then be installed on the existing location. It is requested that a subsequent map be submitted after determining the exact location.
6. Drilling and completion water will be obtained from Pump Canyon wash and the San Juan river.
7. Waste will be disposed of by being placed in the reserve pit and buried. Some will be burned in burn pit which will be covered after the well has been completed.
8. There will be no camp at or near the proposed well site.
9. There will be no airstrip.
10. A map is attached showing the location of the rig, mud tanks, reserve pit, burn pit, pipe racks, etc. The access road and location will be compacted.
11. After the well is completed the location will be cleaned and bladed. The reserve pit will be fenced until it has dried and then it will be filled and restored to its natural state. The access road will be left as is for well maintenance.
12. The location is on a mesa above Pump Canyon. The vegetation is predominately pinon with some sparse range grass.

Yours very truly,

SOUTHERN UNION PRODUCTION COMPANY



Jerry L. Lee  
Area Engineer



Vicinity Map No: NORDHAUS #8 1A

Southwestern Union Bldg. Co.  
 10 W. 10th St. ST. LOUIS, MO.  
 Sec. 11 - NE/SE, S. 12th St. NW, Sec. 14 - NE/SE, S.  
 NW, Sec. 23 - NW, NW, Sec. 24 - SE/SE, S.  
 NW, Sec. 25 - SE/SE, S. 26 - S. NW, S.  
 SE/SE, S. 27 - S. NW, S.

Southwestern Union Bldg. Co.  
 10 W. 10th St. ST. LOUIS, MO.

SOUTHERN UNION PRODUCTION COMPANY  
NORDHAUS NO. 81A  
1850/N LINE & 1470/W LINE, SEC. 13, T-31N, R-9W  
SAN JUAN COUNTY, NEW MEXICO

