

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ 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 **1135 ft. from the North line & 1605 ft. from the East line.**
At proposed prod. zone **Same as above**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 Miles Northwest of Ojito, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **1135 ft.**

16. NO. OF ACRES IN LEASE **2560 Acres**

17. NO. OF ACRES ASSIGNED TO THIS WELL **320 Dakota**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **2090 ft.**

19. PROPOSED DEPTH **8200**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7110 ft. Degraded ground level

22. APPROX. DATE WORK WILL START*
June 15, 1968

5. LEASE DESIGNATION AND SERIAL NO.
Contract No. 104

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla "E"

9. WELL NO.
9

10. FIELD AND POOL, OR WILDCAT
Dakota

11. SEC., T., R., M., OR B.L.
Section 16, T-26N, R-4E

12. COUNTY OR PARISH
San Arriba

13. STATE
New Mexico

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11-3/4"	10-3/4"	32.75	350 ft.	290 sacks
9-7/8"	7-5/8"	26.40	1040 ft.	390 cu. ft.
6-3/4"	4-1/2"	10.50	(3890-8200) Liner	390 cu. ft.

Propose to drill a well to be fully completed in the Dakota and Pictured Cliffs formation. Anticipated total depth 8200 ft.

1. Casing Program:

Surface: 10-3/4", 32.75, H-40 set at 373 ft. Cemented w/250 sz.
Intermediate: 7-5/8", 26.40, J-55 set at 1040 ft. and cemented w/350 cu. ft. cement.
Liner: 4-1/2", 10.50, J-55 set from 3890 ft. - 8200 ft. Cemented w/750 cu. ft. of cement.

- Well will be mud drilled from surface to 1040 ft. and gas drilled from 1040 ft. to T.I.
- Pictured Cliffs and Dakota zones will be sand treated to stimulate production.
- Baker Model "D" 4-1/2" Production packer will be set at approx. 7800 ft. A.I.B.
- 1-1/2", S.U.E., 2.90, JCM tubing will be run to Dakota and landed at approx. 8100 ft. A.I.B.
- 1-1/2", Integral Jt., 2.75, JCM tubing will be run to Pictured Cliffs and landed at approx. 8000 ft. A.I.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. Original signed by
GILBERT D. NOLAND, JR.
SIGNED **Gilbert D. Noland, Jr.** TITLE **Drilling Superintendent** DATE **May 27, 1968**
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

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 ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section



Operator **SOUTHERN UNION PRODUCTION COMPANY** **JICARILLA** **E** **9**
 Unit Letter **B** Section **16** Township **26 NORTH** Range **4 WEST** County **RIO ARriba**
 Actual Footage Location of Well: **1135** feet from the **NORTH** line **1605** feet from the **EAST** line
 Ground Level Elev. **7110.0** Producing Formation **Indata** **Basin Indata** Dedicated Average **1 1/2 300** Acres
Pictured Cliffs **Toposite Pictured Cliffs** **11 1/2 100**

- 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?

Communitization

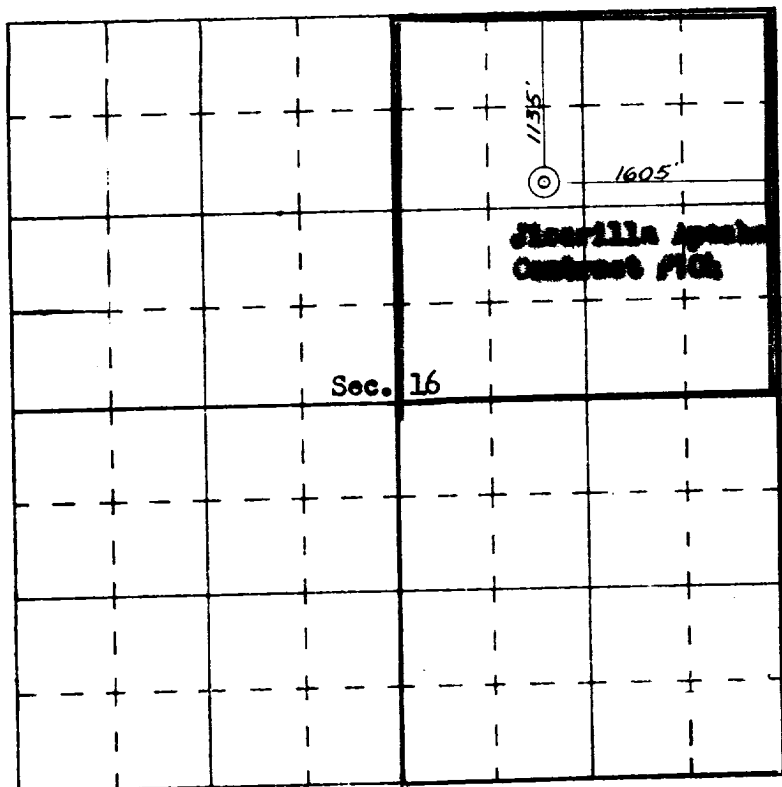
() Yes () No If answer is "yes," type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually 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, force-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

Indicated Indata Acreage

Indicated Pictured Cliffs Acreage



SCALE—4 INCHES EQUALS 1 MILE

CERTIFICATION

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

Original signed by
GILBERT D. NOLAND, JR.

Name **Gilbert D. Noland, Jr.**
 Position **Drilling Superintendent**
 Company **Southern Union Production Co.**
 Date **May 27, 1968**

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.

May 22, 1968
 Date Surveyed
James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor

JAMES P. LEESE

1463

Certificate No.