

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

1650 ft. from the North line and 990 ft. from the West line.

At proposed prod. zone

Same as above.

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

15 miles Northwest of Ojito, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. line, if any)

3630 ft.

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

5,940 ft.

16. NO. OF ACRES IN LEASE

2560

19. PROPOSED DEPTH

7600 ft.

17. NO. OF ACRES ASSIGNED

TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary Tools

22. APPROX. DATE WHEN START*

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

6661 ft. Ungraded ground level.

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 sx.
7-7/8"	5-1/2"	15.50#	7600 ft.	1900 cu. ft. (3 stages)

1. We propose to drill a well to the Dakota formation to be dually completed in the Dakota and Pictured Cliffs formation. Anticipated T.D. 7600 ft.
 2. Proposed Casing Program:
Surface: 300 ft. of 8-5/8", 24.0#, J-55 cemented to surface w/250 sacks.
Production: 7600 ft. of 5-1/2", 15.50#, J-55. 1st stage cemented w/approx. 400 cu. ft.
Stage collar set at 5425 ft. Cemented w/approx. 500 cu. ft.
Stage collar set at 3190 ft. Cemented w/approx. 1000 cu. ft.
 3. Rotary tools will be used to mud drill hole from surface to T.D. of 7600 ft.
 4. Dakota and Pictured Cliffs will be Sand fraced to stimulate production.
 5. 1-1/2", E.U.E., 2.90#, JCW tubing will be run to Dakota and landed at approx. 7400 ft.
 6. 1-1/2", Integral joint, 2.75#, JCW Tbg. will be run to Pictured Cliffs. Landed at 3050 ft.
 7. Baker Model "D" 5-1/2" Production Packer will be set at approx. 7100 ft.
- 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

SIGNED

GILBERT D. NOLAND, JR.

TITLE

Drilling Superintendent

DATE

July 21, 1966

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

JUL 22 1966

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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.

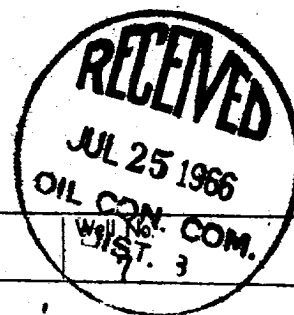
Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal 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



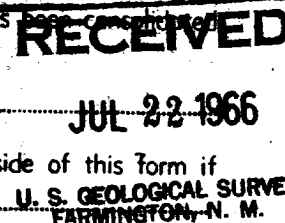
Operator Southern Union Production Company			Lease Jicarilla "J"	
Unit Letter E	Section 36	Township 26 North	Range 5 West	County Rio Arriba
Actual Footage Location of Well: 1650 feet from the North line and 990 feet from the West line Ground Level Elev. 6661 (Est.) Producing Formation Alamo Pool Alamo Alamo Dedicated Acreage: 100 Acres				

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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 **Communitization**

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, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Gilbert D. Roland Jr.
Name

Gilbert D. Roland, Jr.
Position

Drilling Superintendent
Company

Southern Union Production Co.
Date

July 21, 1966

July 21, 1966

July 21, 1966

July 21, 1966

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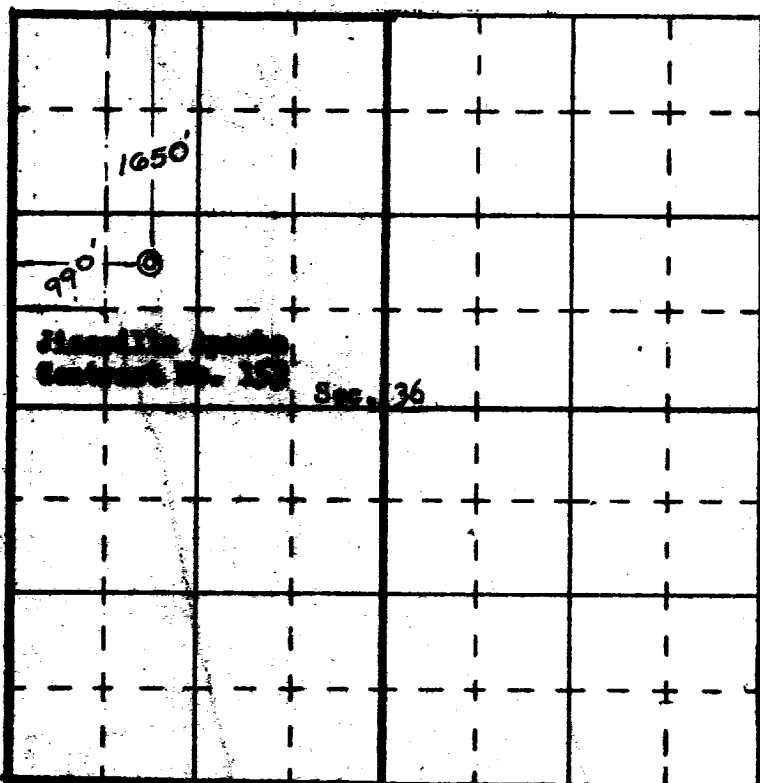
July 21, 1966

July 21, 1966

July 21, 1966

July 21, 1966

July 21, 1966



N

I hereby certify that the well location shown on this plat was plotted from tapes 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.

ERNEST V. ECHOHAWK
Date Surveyed

July 19, 1966

July 19, 1966

July 19, 1966

July 19, 1966

July 19, 1966

July 19, 1966

E. V. Echohawk, D.S.
Certificate No. **3602**

45

1881-1882

1881-1882