

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-045-20175
5. LEASE DESIGNATION AND SERIAL NO.

JF 078431

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hickson

9. WELL NO.

15

10. FIELD AND POOL, OR WILDCAT

Daguer Dakota

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREASec. 23, T-26N, R-8W
S.W. 1/4

12. COUNTY OR PARISH

13. STATE

San Juan

New Mexico

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

1450 ft. from the South line & 1760 ft. from the East line.

At proposed prod. zone Same as above.

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

27 miles Southwest of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

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

1760 ft.

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

300 ft.

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

330

19. PROPOSED DEPTH

6725 ft.

20. ROPE OR CABLE TOOLS

Rotary

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

6373 ft. Ungraded ground level

22. APPROX. DATE WORK WILL START*

October 25, 1967

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"	25.0%	300 ft.	250 sacks
7-7/8"	4-1/2"	10.5	6725 ft.	2500 cu. ft. (3 stages)

WE PROPOSE TO DRILL A DAKOTA WELL. ANTICIPATED TOTAL DEPTH 6725 ft.

1. Casing Program:

Surface: 8-5/8", 24.0%, J-55 set at 300 ft. Cemented to surface w/250 sacks.
Production: 4-1/2", 10.50%, J-55 set at total depth of 6725 ft. R.K.B. 1st
stage cemented w/600 cu. ft. of cement; Stage collar set at approx.
4750 ft. under Mesaville and cemented w/500 cu. ft. cement; Stage
collar set at approx. 2400 ft. under Pictorial cliffs and cemented
w/1100 cu. ft. cement.

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

3. Well will be mud fraced to stimulate production.

4. 1-1/2", E.U.E., 2.90% tubing will be set at approx. 6600 ft. R.K.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 SuperintendentDATE October 10, 1967

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

Gm

*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.

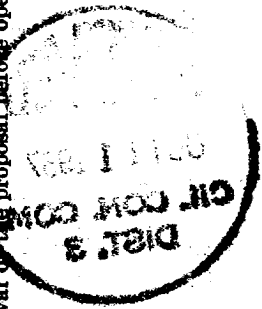
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 ~~to be~~ 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**

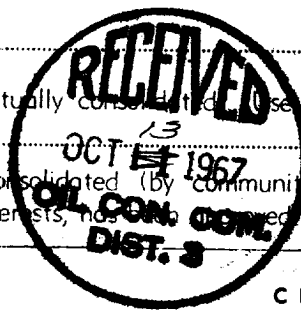
All distances must be from the outer boundaries of the Section

Operator SOUTHERN UNION PRODUCTION COMPANY			Lease HICKORY		Well No. 15
Unit Letter J	Section 23	Township 26 NORTH	Range 8 WEST	County SAN JUAN	
Actual Footage Location of Well: 1450 feet from the SOUTH line and 1760 feet from the EAST line Ground Level Elev. 6373.0 Producing Formation MESA Pool EAST MESA Dedicated Acreage 1/2 300 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 communization, 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 consolidated (use reverse side of this form if necessary.) _____

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



CERTIFICATION

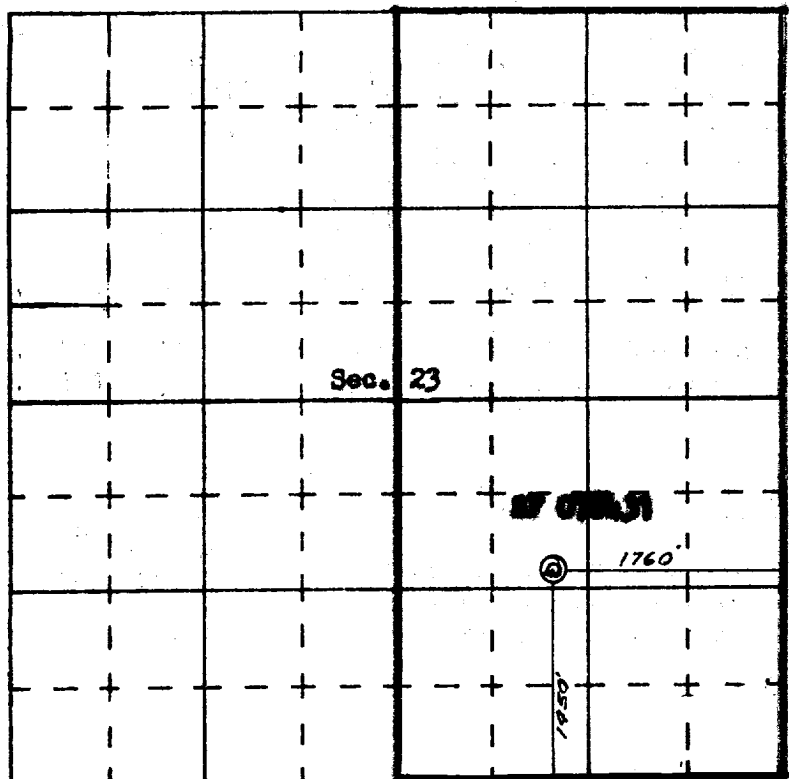
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original signed by
GILBERT D. NOLAND, JR.

Name _____
Gilbert D. Noland, Jr.
 Position _____
Drilling Superintendent
 Company _____
Southern Union Production Co.
 Date _____
October 10, 1967

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.

October 4, 1967
 Date Surveyed _____
 Registered Professional Engineer
 and/or Land Surveyor
JAMES P. LEESE
1463
 Certificate No. _____



SCALE—4 INCHES EQUALS 1 MILE