

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 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2289 ft. from the North line & 790 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 Northeast of Counsellors, New Mexico

15. DISTANCE FROM PROPOSED*
 LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
 (Also to nearest drig. unit line, if any) 790 ft.

16. NO. OF ACRES IN LEASE
 374.4

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40 Acres (Gallup)

18. DISTANCE FROM PROPOSED LOCATION*
 TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3800 ft.

19. PROPOSED DEPTH
 7175 ft.

20. ROTARY OR CABLE TOOLS
 Rotary Tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6634 ft. Ungraded ground level

22. APPROX. DATE WORK WILL START*
 May 12, 1969

5. LEASE DESIGNATION AND SERIAL NO.
 Contract 510

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Jicarilla "L"

9. WELL NO.
 3

10. FIELD AND POOL, OR WILDCAT
 Otero Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 3, T-24N, R-5E

12. COUNTY OR PARISH
 Rio Arriba

13. STATE
 New Mexico

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"	15.5	7175 ft.	2400 cu. ft.

We propose to drill a well to be dually completed in the Gallup and Dakota formations. Anticipated total depth 7175 feet.

1. Casing Program:
 Surface: 8-5/8", 24.0, J-55 set at 300 ft. Cemented to surface w/250 sacks.
 Production: 5-1/2", 15.5, set at total depth of 7175 ft. A.K.B.
 1st stage cemented w/600 cu. ft. of cement. Stage collar set at approx. 5000 ft. under Mesaverde and cemented w/400 cu. ft. of cement. Stage collar set under Chacra at approx. 3700 ft. and cemented with 1400 cu. ft. of cement.
2. Rotary tools will be used to mud drill well from surface to total depth.
3. Gallup and Dakota formations will be sand fraced to stimulate production.
4. Baker 5-1/2" Model "B" Production Packer will be set at approximately 6800 ft. A.K.B.
5. 2-1/16", 3.30, J.L. tubing will be run to Dakota and landed at approx. 6850 ft. A.K.B.
6. 2-1/16", 3.30, J.L. tubing will be run to Gallup and landed at approx. 6100 ft. A.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.
 Drilling Superintendent
 DATE May 2, 1969

SIGNED
 (This space for Federal or State office use)

APPROVED
 MAY 6 1969
 JERRY W. LONG
 DISTRICT ENGINEER

RECEIVED
 MAY 8 1969
 ON COM. COM.
 DIST. 3

RECEIVED
 MAY 6 1969

U. S. GEOLOGICAL SURVEY
 DURANGO, COLO.

*See Instructions On Reverse Side

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.



All distances must be from the outer boundaries of the Section

3

NO ARRIBA

THE UNIVERSITY OF CHICAGO

40 acres (Callings)
374.4 acres Dakota

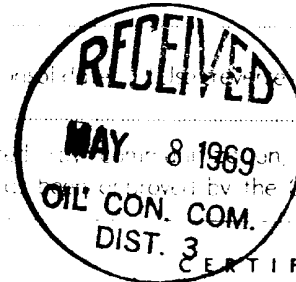
10-10-68

Now, a new law, effective as of the new unit, will allow all interest, save from consolidated subsidiaries, to be used for unitization, for the purpose of obtaining a new unit, and, in addition, such interest will be approved by the Commission.

Sixth Correction Line North



SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.



1 ~~Aug~~ 1969

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