

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 ☐

2. NAME OF OPERATOR

Southern Union Production Company

3. ADDRESS OF OPERATOR

P. O. Box 508, Farmington, New Mexico 87401

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

At surface
1850 ft. from the south line and 1850' from the east line.

At proposed prod. zone same as above.

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

15 miles Northeast of Lordsburg, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest drilg. unit line, if any)

790 ft.

18. DISTANCE FROM PROPOSED LOCATION*

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

approx. 2600 ft.

19. PROPOSED DEPTH

7000 ft.

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

5612 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"	25.0	100 ft.	250 sacks
7-7/8"	5-1/2"	15.5	7000 ft.	2400 cu. ft.

We propose to drill a well to be usually completed in the Gallup and Dakota formations.
anticipated total depth 7000 feet.

1. Casing Program:

Surface: 8-5/8", 25.0, 3-55 set at 100 ft. cemented to surface w/250 sacks.

Production: 5-1/2", 15.50 set at total depth of 7000 ft. L.K.P.

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.
2nd stage collar set under shales 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 "U" Production Packer will be set at approximately 5700 ft. L.K.P.

5. 2-1/16", 3.30, J-5 tubing will be run to Dakota and landed at approx. 6950 ft. L.K.P.

6. 2-1/16", 3.30, J-5 tubing will be run to Gallup and landed at approx. 6000 ft. L.K.P.

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 B. R. VANDERSLIN

TITLE

Area Superintendent
MAG. Minerals

DATE

July 17, 1970

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

JUL 21 1970

JERRY W. LONG
DISTRICT ENGINEER

TITLE

DATE

*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.

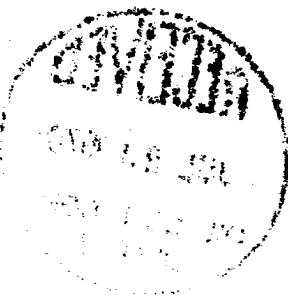
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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.



APPROVED

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the center of the well.

JICARILLA "N"

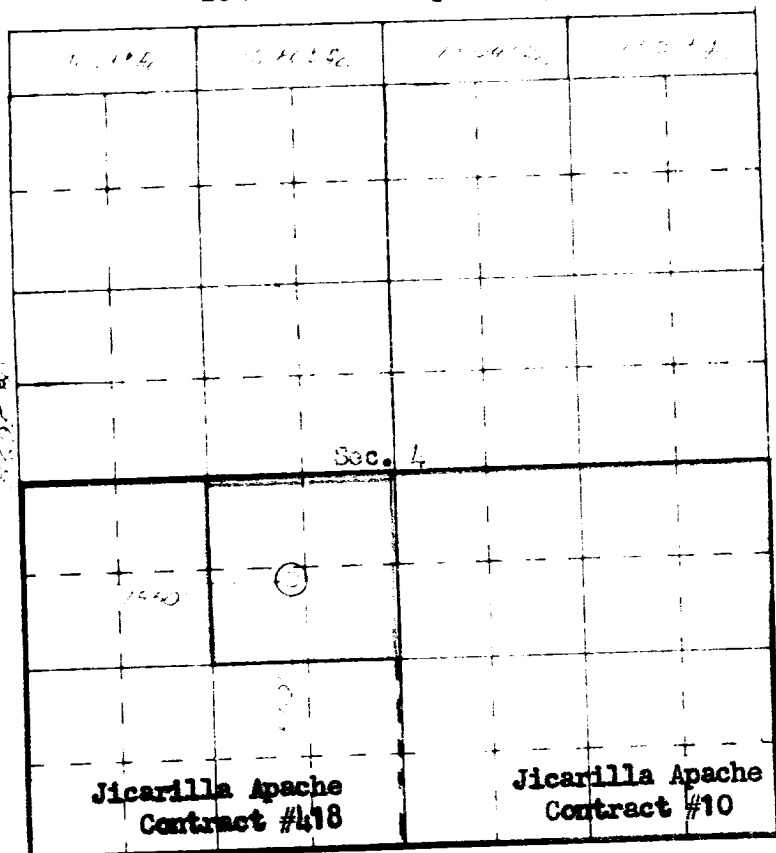
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GALLUP - DAKOTA

OTERO GALLUP
BASIN DAKOTA

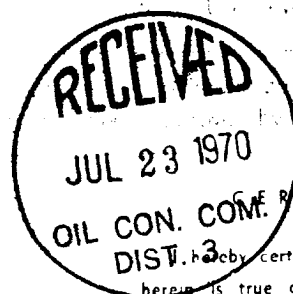
40 Acres (Gallup)
320 Acres (Dakota)

— Dedicated Dakota Acreage
— Dedicated Gallup Acreage



SCALE: 4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.



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

ORIGINAL SIGNED BY
B. R. VANDERSLICE

B. R. Vanderslice

Area Superintendent

Southern Union Production Co.

July 17, 1970

I hereby certify that this plat was plotted surveys made by me or that the same is true and knowledge and belief.

15 July, 1970

James P. [Signature]
Professional Engineer
Lic. # [Number]

1570

1570
[Signature]