

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒MAY DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

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

3. ADDRESS OF OPERATOR

SOUTHERN UNION PRODUCTION COMPANY

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

At surface

1450 FT. FROM NORTH LINE AND 835 FT. FROM WEST LINE
At proposed prod. zone

SAME AS ABOVE

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

3 MILES NORTHWEST OF QUITO, NEW MEXICO

15. DISTANCE FROM PROPOSED

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

835 FT.

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

2240 FT.

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

23. 6663 FT. UNGRADED GROUND LEVEL

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10-3/4"	32.75	300 FT.	250 SACKS
7-7/8"	7-5/8"	26.48	3750 FT.	200 SACKS
6-3/4"	4-1/2"	10.50	3600-8000	1000 CU. FT.

WE PROPOSE TO DRILL A WELL TO BE DUALY COMPLETED IN THE DAKOTA AND PICTURED CLIFFS
FORMATION. ANTICIPATED TOTAL DEPTH 8000 FT.1. CASING PROGRAM: SURFACE - 10-3/4", 32.75#, H-40 SET AT 300 FT. CEMENTED W/250 SX.
INTERMEDIATE: 7-5/8", 26.48#, J-55 SET AT 3750 FT. CEMENTED W/200
SACKS.LINER: 4-1/2", 10.50#, J-55 SET FROM 3600 FT. TO T.D. 8000 FT.
CEMENTED W/1000 CU. FT. OF CEMENT.

- WELL WILL BE MUD DRILLED FROM SURFACE TO 3750 FT. AND GAS DRILLED FROM 3750 TO T.D.
- PICTURED CLIFFS AND DAKOTA ZONES WILL BE SAND FRACED TO STIMULATE PRODUCTION.
- BAKER MODEL 4-1/2" PRODUCTION PACKER WILL BE SET AT APPROX. 7600 FT. R.K.B.
- 1-1/2" E.U.E., 2.90# JOE TUBING WILL BE RUN TO DAKOTA AND LANDED AT APPROX. 7000 FT.
- 1-1/2" INTEGRAL JOINT, 2.75# JOE TUBING WILL BE RUN TO PICTURED CLIFFS. LANDED
AT 3500 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
prevention program, if any.

24.

Original signed by

GILBERT D. NOLAND, JR.

TRILLING SUPERINTENDENT

MAY 12, 1967

SIGNED

TITLE

DATE

(This space for Federal or State official use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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.

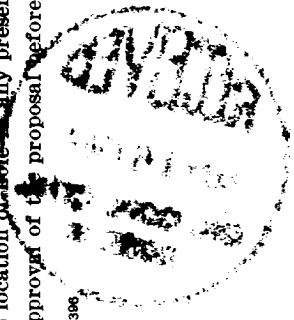
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 to 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

Owner: **SOUTHERN UNION PRODUCTION COMPANY** Lease: **JICARILLA A** Well No: **8**
 Unit: **E** Section: **23** Township: **26 NORTH** Range: **4 WEST,** Meridian: **RIO ARriba**
 Actual Surface Location of Well: **1450** feet from the **NORTH** line **885** feet from the **WEST** line
 Ground Level Elev: **6863.0** Producing Form: **DANOTA** Pool: **Basin Danota** Dedicated Acreage: **128** Acres
PICTURED CLIFFS **TAPASITO PICTURED CLIFFS**

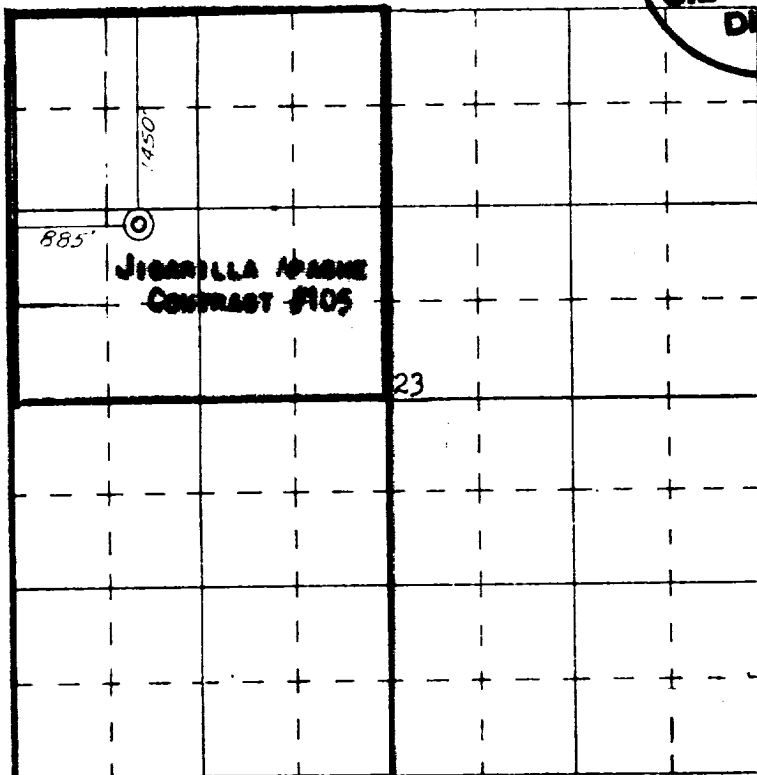
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

If answer is "no" list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary)

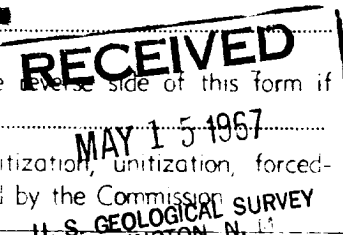
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating said interest, has been approved by the Commission

— **DEDICATED DANOTA ACREAGE**
 — **DEDICATED PICTURED CLIFFS ACREAGE**



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.



CERTIFICATION

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

Original signed by
 Name: **GILBERT D. NOLAND, JR.**
 Position: **DRILLING SUPERINTENDENT**

Company: **SOUTHERN UNION PRODUCTION CO.**
 Date: **MAY 12, 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.

Date: **MAY 15 1967**
 Registered Professional Engineer
 and/or Land Surveyor
 Certificate No. **1463**