

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 790 ft. from the east line & 1720 ft. from the south line.

At proposed prod. zone Same as above.

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

3 miles Northwest of Ojito, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 790 ft.

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 2670 ft.

16. NO. OF LAYERS IN THE

2560

19. PROPOSED DEPTH

OIL CON. COM
8000 ft. 37. NO. OF ACRES ASSIGNED
TO THIS WELL 160 A.C.

320 Dakota

20. ROTARY OR CABLE TOOLS

Rotary

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

6955 ft. Ungraded ground level

22. APPROX. DATE WORK WILL START*

June 1, 1968

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	32.75	300	250 sacks
9-7/8"	7-5/8"	26.40	3830	350 cu. ft.
6-3/4"	4-1/2"	10.50	3680-8000	(Liner) 750 cu. ft.

WE PROPOSE TO DRILL A WELL TO BE DEEPLY CEMENTED 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 sacks.

Intermediate: 7-5/8", 26.40, J-55 set at 3830 ft. Cemented w/200 sacks.

Liner: 4-1/2", 10.50, J-55 set from 3680 ft. to T.D. of 8000 ft. and
cemented w/approx. 750 cu. ft. of cement.

2. Well will be sand drilled from surface to 3830 ft. & gas drilled from 3830 ft. to T.D.

3. Pictured Cliffs and Dakota zones will be sand fraced to stimulate production.

4. Baker Model "D" 4-1/2" Production Packer will be set at approx. 7600 ft. T.B.B.

5. 1-1/2", B.U.S., 2.90, J-55 tubing will be run to Dakota and landed at approx. 7900 ft. KB.

6. 1-1/2" Integral St. 2.75, J-55 tubing will be run to Pictured Cliffs and landed at
approx. 3600 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

GILBERT D. NOLAND, JR.

SIGNED Gilbert D. Noland, Jr.

TITLE

Drilling Superintendent

DATE

May 23, 1968

(This space for Federal or State office 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.

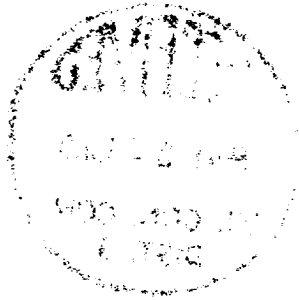
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 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

RECEIVED

MAY 27 1968

All distances must be from the outer boundaries of the Section

U. S. GEOLOGICAL SURVEY

SOUTHERN UNION PRODUCTION COMPANY

JICAMILLA

E 10

I

22

26 NORTH

4 WEST

RIO ARRIBA

1720

SOUTH

790

EAST

1/2 380

6955.0

Pictured Cliffs

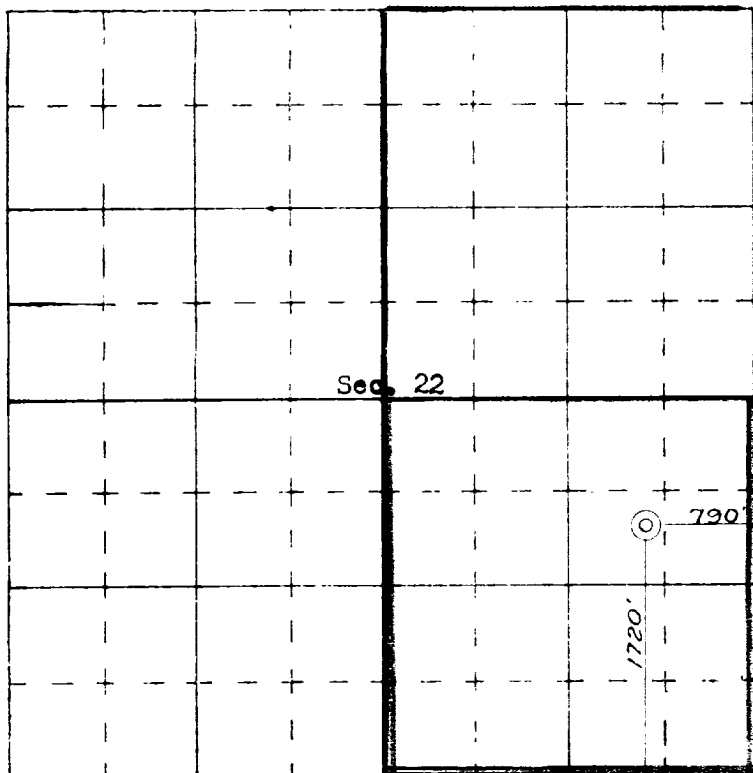
Tepicito Pictured Cliffs

1/4 160



Communitization

Indicated Dakota Acreage
Dedicated Pictured Cliffs Acreage



N

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
GILBERT D. NOLAND, JR.

Gilbert D. Noland, Jr.

Drilling Superintendent

Southern Union Production Co.

May 23, 1968

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.

22 May, 1968

James P. Leese
Professional Engineer
and Land Surveyor

JAMES P. LEESE

1463

Cart No.