

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-039-20567
5. LEASE DESIGNATION AND SERIAL NO.

CONTRACT #145

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

JICARILLA APACHE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

JICARILLA "K"

9. WELL NO.

18

10. FIELD AND POOL, OR WILDCAT
SOUTH BLANCO PICTURED CLIFFS
CHACRA EXT.11. SEC., T., R., M., OR B.L.
AND SURVEY OR AREA
SEC. 2, T-25N, R-5W,
N.M.P.M.

12. COUNTY OR PARISH

RIO ARRIBA

13. STATE
NEW MEXICO16. NO. OF ACRES IN LEASE
2560
17. NO. OF ACRES ASSIGNED
TO THE WELL
168 ACRES CHACRA

18. DISTANCE FROM PROPOSED*

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

890 FT.

19. PROPOSED DEPTH

3950 FT.

20. ROTARY OR CABLE TOOLS
ROTARY

22. APPROX. DATE WORK WILL START*

OCTOBER 16, 1972

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
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

890 FT. FROM THE SOUTH LINE AND 890 FT. FROM THE

At proposed prod. zone SAME AS ABOVE.

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

15 MILES NORTHEAST OF CONSELORS, NEW MEXICO

15. DISTANCE FROM PROPOSED*

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

890 FT.

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

960 FT.

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

6642 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"	24.0#	200 FT.	150 SACKS
7-7/8"	4-1/2"	10.50#	3950 FT.	1400 CU. FT.

WE PROPOSE TO DRILL A WELL TO BE DUALY COMPLETED IN THE PICTURED CLIFFS AND CHACRA FORMATIONS. ANTICIPATED TOTAL DEPTH 3950 FEET. R.K.B.

1. CASING PROGRAM:

SURFACE: 8-5/8", 24.0#, K-55 SET AT 200 FT. CEMENTED TO SURFACE W/150 SACKS.

PRODUCTION: 4-1/2", 10.50#, K-55 SET AT T.D. OF 3950 FT. CEMENTED W/1400 CU. FT. OF CEMENT.

2. ROTARY TOOLS WILL BE USED TO MUD DRILL WELL FROM SURFACE TO TOTAL DEPTH.

3. PICTURED CLIFFS AND CHACRA WILL BE SAND FRACED TO STIMULATE PRODUCTION.

4. BAKER 4-1/2" MODEL "D" PRODUCTION PACKER WILL BE SET AT APPROX. 3750 FT. R.K.B.

5. 1-1/2", E.U.E., 2.90#, V-55 TUBING WILL BE RUN TO CHACRA AND SET AT APPROX. 3850 FT. R.K.B.

6. BAKER MODEL "L" SLIDING SLEEVE WILL BE RUN ON 1-1/2" CHACRA TUBING AND SET UNDER PICTURED CLIFFS PERFORATIONS AT APPROX. 3100 FT. TO FACILITATE FLUID REMOVAL FROM PICTURED CLIFF ZONE.

7. PICTURED CLIFF ZONE WILL BE PRODUCED FROM ANNULUS OF 4-1/2" CASING.

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 GILBERT D. NOLAND, JR.

TITLE DRILLING SUPERINTENDENT

DATE SEPT. 27, 1972

GILBERT D. NOLAND, JR.

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

SEP 27 1972

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DENVER, COLO.

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.

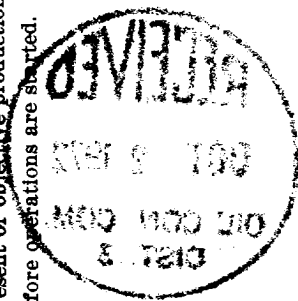
Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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**

All distances must be from the outer boundaries of the Section

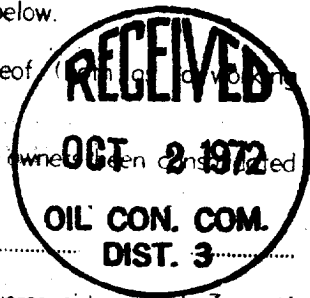
Operator SOUTHERN UNION PRODUCTION COMPANY				Lease JICARILLA #K		Well 18	
Unit Letter M	Section 2	Township 25 NORTH	Range 5 WEST	County RIO ARriba			
Actual Footage Location of Well: 890 feet from the SOUTH line and 890 feet from the WEST line							
Ground Level Elev 6642.0	Producing Formation Pioneer Cliffs		Pool Pioneer Cliffs		Estimated Acres 160		

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 (including 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?

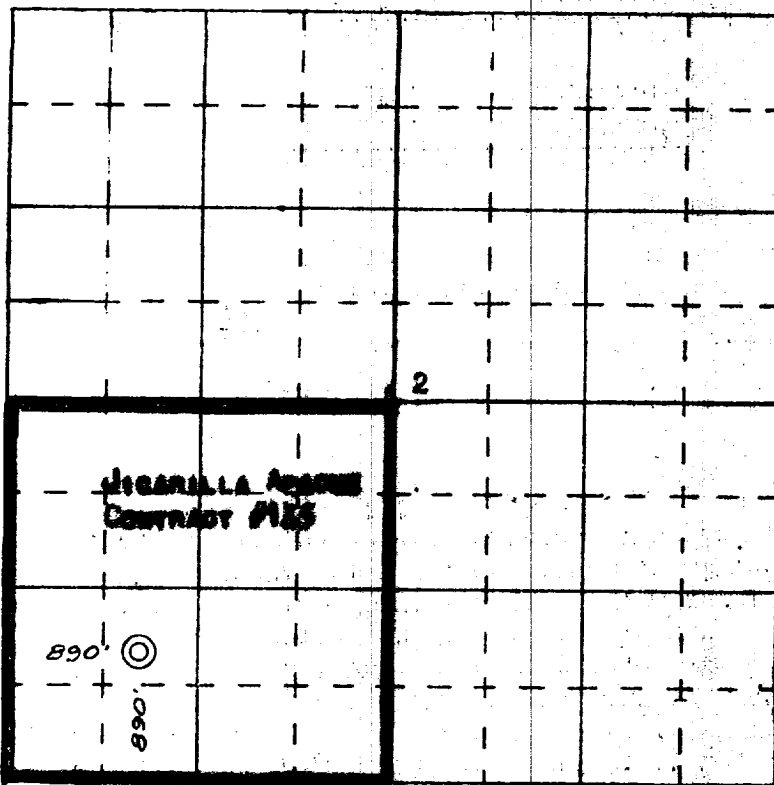
() Yes () No If answer is "yes," type of consolidation _____

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 communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



DEDICATED PIONEER CLIFFS ACREAGE
DEDICATED JICARILLA ACREAGE



SCALE—4 INCHES EQUALS 1 MILE

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
SEPTEMBER 27, 1972

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 Surveyed
26 SEPTEMBER 1972
 Registered Professional Engineer
 and/or Land Surveyor **James P. Leese**
 1463
 MEXICO
 Certificate No. _____