

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

Southland Royalty Company

3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, New Mexico 87401

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

At surface

1545' FSL & 790' FWL

At proposed prod. zone

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

12 miles North of Ojito, New Mexico

15. DISTANCE FROM PROPOSED\*

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

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

19. PROPOSED DEPTH

8700'

20. ROTARY OR CABLE TOOLS

Rotary

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

7723' GR

22. APPROX. DATE WORK WILL START\*  
October 15, 1978

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 12-1/4"      | 9-5/8"         | 36#             | 200'          | 130 cu. ft.        |
| 7-7/8"       | 4-1/2"         | 11.6#           | 700'          | 468 cu. ft.        |
| 7-7/8"       | 4-1/2"         | 10.5#           | 700'-6800'    | 165 cu. ft.        |
| 7-7/8"       | 4-1/2"         | 11.6#           | 6800'-8700'   | 430 cu. ft.        |

We propose to drill this well to the Dakota formation, then complete in either the Dakota, Mesaverde or Pictured Cliffs as a single completion. Surface formation is San Jose.

Top of the Ojo Alamo sand is at 2380'.

Top of the Pictured Cliff sand is at 3926'.

Top of the Cliff House sand is at 5795'.

It is anticipated that a GR-Density, Compensated Neutron, Sonic, Dual Laterolog and a MicroSFL log will be run at total depth.

Fresh water mud will be used to drill from surface to total depth.

No abnormal pressures or poisonous gases are anticipated in this well.

It is expected that this well will be drilled before October 31, 1978. This depends on time required for approvals, rig availability and the weather.

Gas is not dedicated.

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.

SIGNED

TITLE

District Production Manager

DATE

September 28, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

SEP 29 1978

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107  
Supersedes C-120  
Effective 1-1-75

All distances must be from the outer boundaries of the Section.

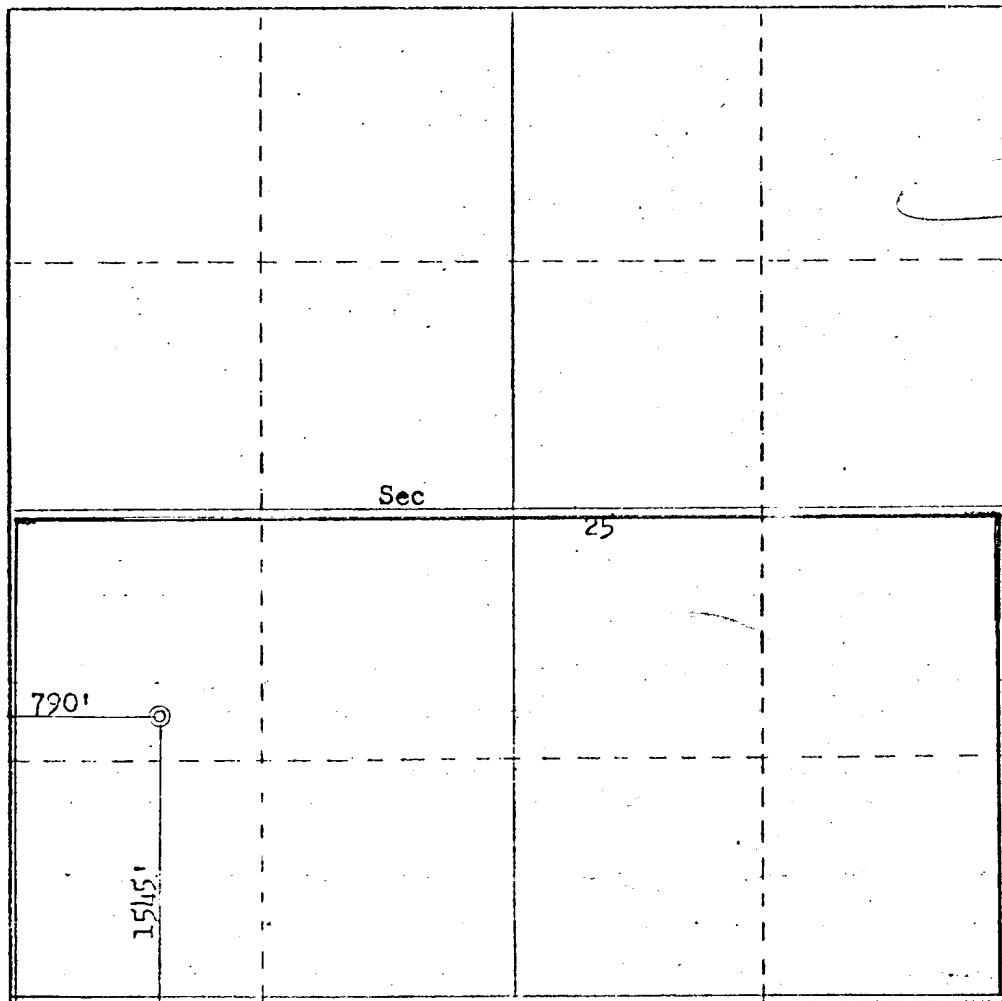
|   |                                      |                        |                            |                                  |                      |
|---|--------------------------------------|------------------------|----------------------------|----------------------------------|----------------------|
| Operator<br><b>SOUTHLAND ROYALTY COMPANY</b>  |                                      |                        | Lease<br><b>TAPICITOES</b> |                                  | Well No.<br><b>2</b> |
| Unit Letter<br><b>L</b>   | Section<br><b>25</b>                 | Township<br><b>26N</b> | Range<br><b>2W</b>         | County<br><b>RIO ARriba</b>      |                      |
| Actual Footage Location of Well:<br><b>1545</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>West</b> line |                                      |                        |                            |                                  |                      |
| Ground Level Elev.<br><b>7723</b>   | Producing Formation<br><b>Dakota</b> |                        | Pool<br><b>Basin</b>       | Dedicated Acreage:<br><b>320</b> |                      |

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 of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been 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.



CERTIFICATION

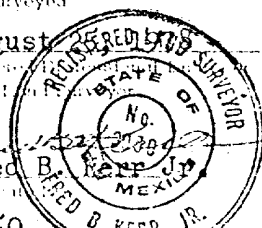
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name \_\_\_\_\_  
District Production Manager  
Position \_\_\_\_\_  
Southland Royalty Company  
Company \_\_\_\_\_  
September 28, 1978  
Date \_\_\_\_\_

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

August  
Register  
in Book  
Fred B. Kerr Jr.  
Certified  
2050



DRILLING SCHEDULE - TAPACITO #2

Location: 1545' FSL & 790' FWL, Section 25, T26N, R2W, Rio Arriba, New Mexico

Field: Basin Dakota

Elevation: 7736' KB

|                        |                 |       |             |       |
|------------------------|-----------------|-------|-------------|-------|
| <u>Formation Tops:</u> | Ojo Alamo       | 2380' | Gallup      | 7045' |
|                        | Pictured Cliffs | 3926' | Greenhorn   | 8286' |
|                        | Cliff House     | 5795' | Dakota      | 8486' |
|                        | Point Lookout   | 6145' | Total Depth | 8700' |

Logging Program: GR Density and CNL, Sonic, Dual Laterolog Micro SFL

Coring Program: None

Natural Gauges: None

Mud logger from surface pipe to TD.

Drilling: Contractor - Four Corners

Tool Pusher: Sam Estes

Company Representative: Max Larson

SRC Answ. Svc: 325-1841

SRC Dispatch: 325-7391

Mud Program: Fresh water mud from surface to Total Depth.

Materials: Casing Program -

| <u>Hole Size</u> | <u>Depth</u> | <u>Casing Size</u> | <u>Wt.</u> | <u>and Grade</u> |
|------------------|--------------|--------------------|------------|------------------|
| 12 1/4"          | 200'         | 9 5/8"             | 36#        | K-55             |
| 7 7/8"           | 700'         | 4 1/2"             | 11.6#      | K-55, ST & C     |
| 7 7/8"           | 700'-6800'   | 4 1/2"             | 10.5#      | K-55, ST & C     |
| 7 7/8"           | 6800'-8700'  | 4 1/2"             | 11.6#      | K-55, ST & C     |

Float Equipment: 9 5/8" surface casing - Pathfinder, regular cement guide shoe.

4 1/2" casing - Pathfinder cement guide shoe. Flapper type self-fill float collar 40' off bottom. Dowell stage tool @ 6545'. Dowell stage tool @ 4226'.

Tubing: 2 3/8", 4.7#, J-55, EUE, 8 rd @ 8600' (+).

Wellhead Equipment: OCT, 9 5/8", X 10", 3000# casing head with slips for 4 1/2" casing.

10", 900# X 6", 900# tubing head with 2 3/8" tubing hanger.

Cementing:

9 5/8" surface casing - 110 sacks of Class "B" with 1/4# gel flake and 3% CaCl<sub>2</sub> (130 cu. ft.).

4 1/2" casing - Stage #1: 300 sacks of 50/50, Poz with 6% gel (468 cu.ft.) and .4% HR-7.

Stage #2: 165. sacks of 50/50 Poz with 6% gel (257 cu.ft.)

DRILLING SCHEDULE - TAPACITO #2  
Page #2

Stage #3: 430 sacks of 50/50 poz with 6% gel (671 cu.ft.).

Circulate and WOC between stages as required by well conditions.

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L. O. Van Ryan

CCP/kde

9-28-78



**Southland Royalty Company**

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Mr. Jerry Long

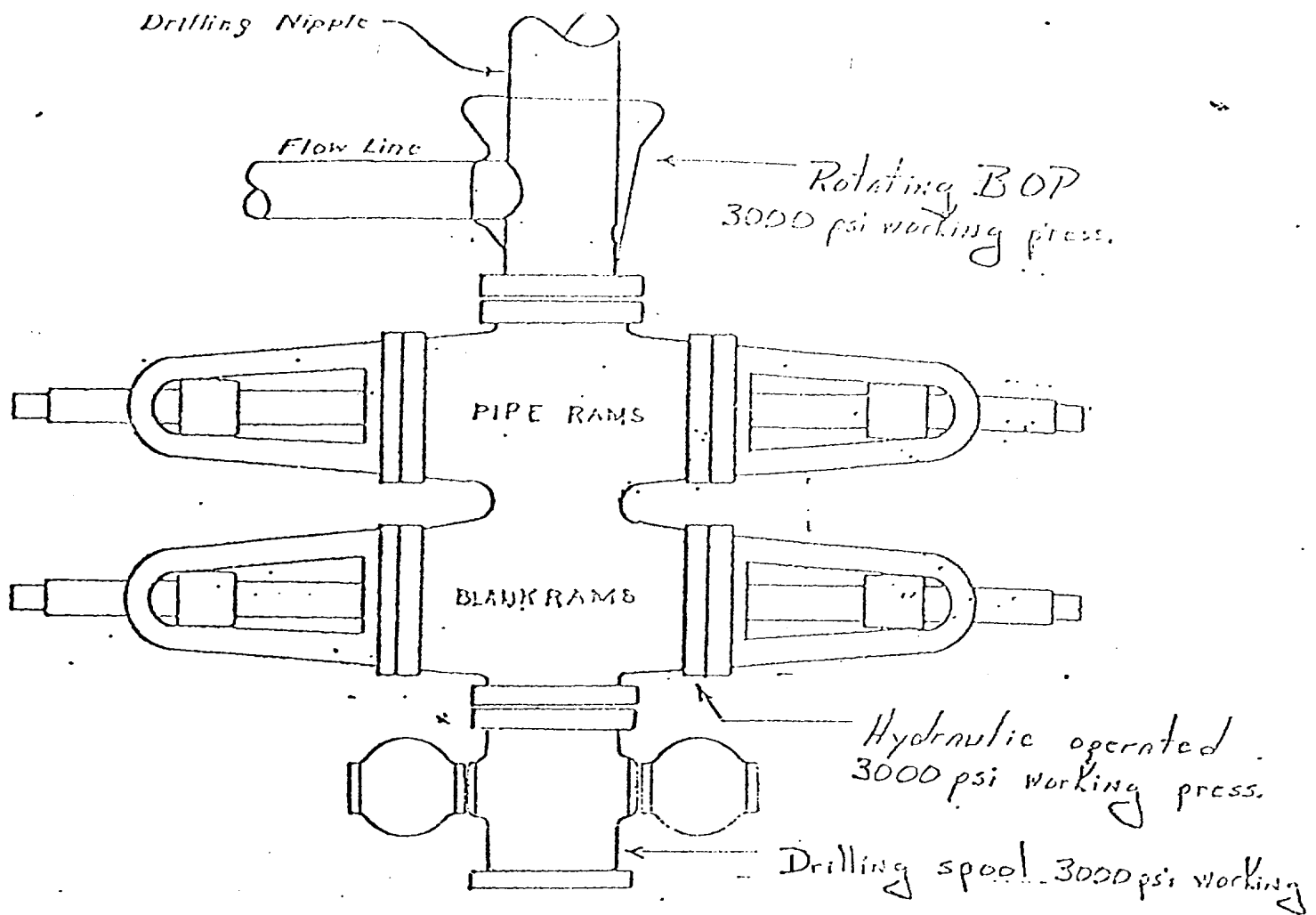
Dear Sir:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein be performed by Southland Royalty Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: September 28, 1978

Name: C. C. Pearson

Title: District Engineer



Preventers and spools are to have  
through bore of 6" - 3000# PSI or larger.



**Southland Royalty Company**

September 28, 1978

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

The preventer is 3000# working pressure and 6000# test.

All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Yours truly,

L. O. Van Ryan  
District Production Manager

LOVR/dg



**Southland Royalty Company**

September 28, 1978

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Mr. Jerry Long

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Tapacitos #2 well. The locations of tank batteries and flow lines will be on location with well. A burn pit will be provided for disposal of trash. Cuttings, drilling fluid and produced fluids will be put into the reserve pit and properly disposed of depending on amount and type of fluids.

Contractor will furnish restroom facilities on location.

There will be no air strips or camps.

Also, enclosed is a location layout showing approximate location of rig, pits, pipe racks and cut required to build this location.

Water supply will be water holes along Tapacitos Wash. All water will be transported by truck and stored on location.

The location will be restored according to Bureau of Land Management standards. This work will begin when all related construction is finished.

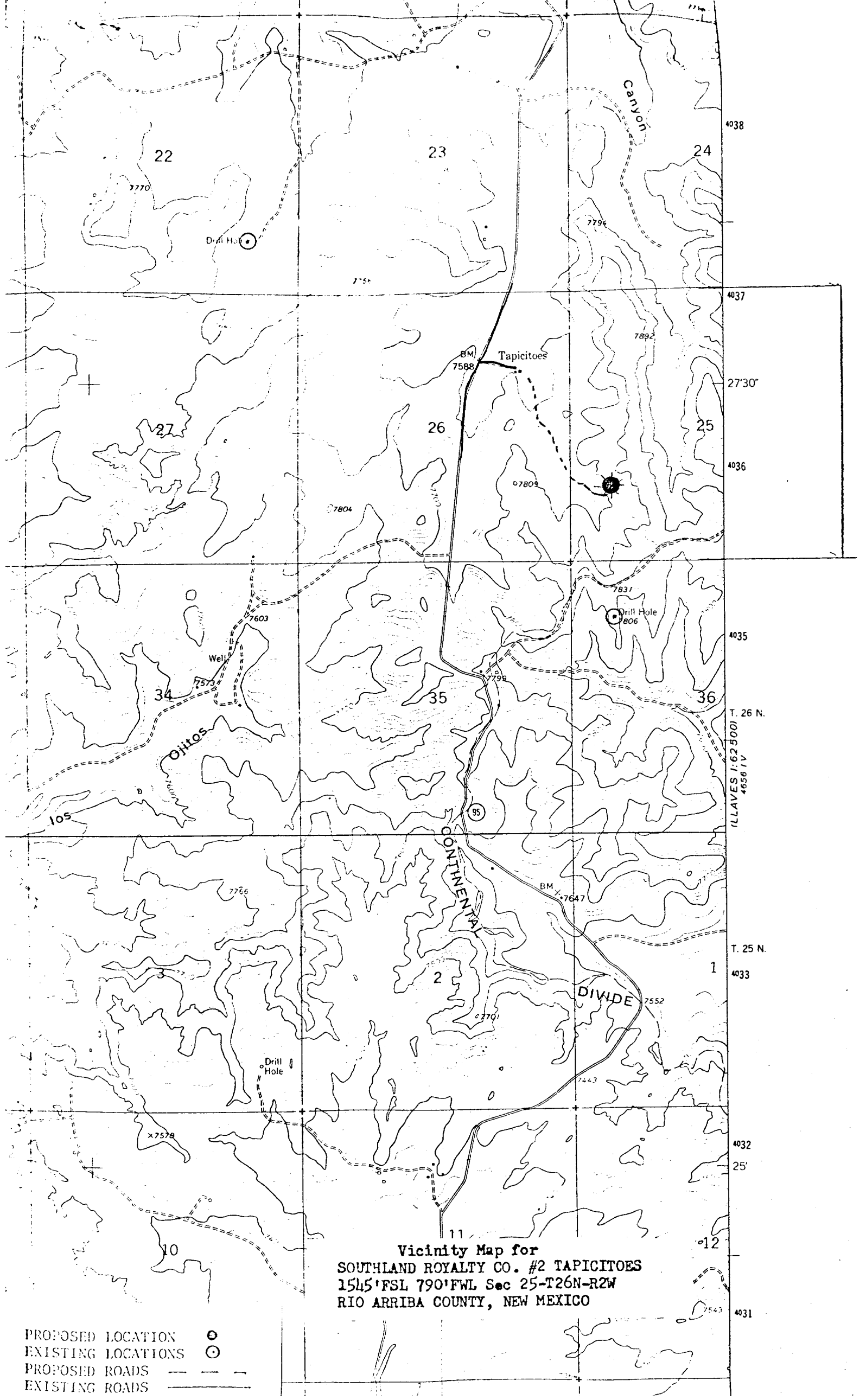
Mr. Max Larson will be Southland Royalty Company's field representative supervising these operations.

Yours truly,



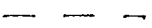
L. O. Van Ryan  
District Production Manager

LQVR/dg





Vicinity Map for  
SOUTHLAND ROYALTY CO. #2 TAPICITOES  
1545'FSL 790'FWL Sec 25-T26N-R2W  
RIO ARRIBA COUNTY, NEW MEXICO

PROPOSED LOCATION      
EXISTING LOCATIONS      
PROPOSED ROADS      
EXISTING ROADS    