

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-23829

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  
 Drawer 570, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 1670' FSL & 1520' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 9 miles East of Farmington, New Mexico

10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1520'

16. NO. OF ACRES IN LEASE  
 480

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

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

19. PROPOSED DEPTH  
 1905

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5640'

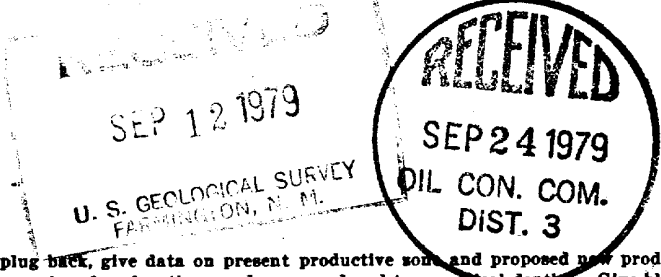
22. APPROX. DATE WORK WILL START\*  
 October 1, 1979

5. LEASE DESIGNATION AND SERIAL NO.  
 SF-075387  
 6. IF INDIAN, ALLOTTED OR TRIBE NAME  
 7. UNIT AGREEMENT NAME  
 8. FARM OR LEASE NAME  
 Reid PRI  
 9. WELL NO.  
 #2  
 10. FIELD AND POOL, OR WILDCAT  
 Blanco Pictured Cliffs  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 13, T29N, R12W  
 12. COUNTY OR PARISH 13. STATE  
 San Juan New Mexico

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#	120'	84 sxs (99 cu. ft.)
6-3/4"	2-7/8"	6.5#	1905'	162 sxs (301 cu. ft.)

Surface formation is Nacimiento.  
 Top of Ojo Alamo sand is at 920'.  
 Fresh water mud will be used to drill from surface to total depth.  
 It is anticipated that an IES and a GR-Density log will be run at total depth.  
 No abnormal pressures or poisonous gases are anticipated in this well.  
 It is expected that this well will be drilled before November 15, 1979. This depends on time required for approvals, rig availability and the weather.  
Gas is 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. [Signature] TITLE District Production Manager DATE September 11, 1979

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

ok Frank

\*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

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

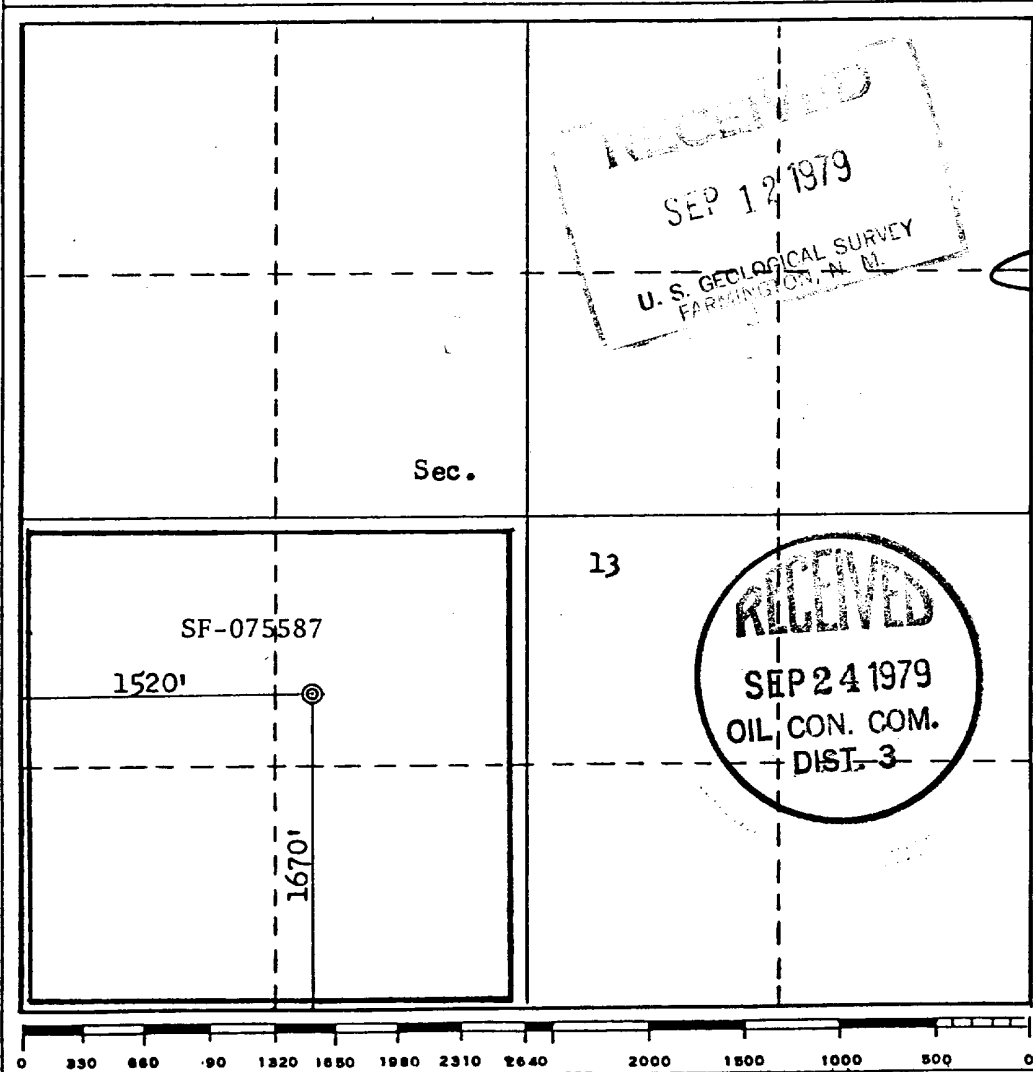
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>REID PRI</b>		Well No. <b>2</b>
Unit Letter <b>K</b>	Section <b>13</b>	Township <b>29N</b>	Range <b>12W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1670</b> feet from the <b>South</b> line and <b>1520</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5640</b>	Producing Formation <b>Pictured Cliffs</b>	Pool <b>Blanco</b>	Dedicated Acreage: <b>160</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

*[Signature]*  
Name: \_\_\_\_\_  
Position: District Production Manager  
Company: Southland Royalty Company  
Date: September 11, 1979

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 27, 1979  
Registered Professional Engineer and/or Licensed Surveyor  
*[Signature]*  
Fred B. Coff Jr.  
Certificate No. 3956  
NEW MEXICO  
FRED B. COFF, JR.



**Southland Royalty Company**

September 11, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico

Attention:

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Reid PRI #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 and pipe racks and cut required to build this location.

Water supply will be San Juan River.

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

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan  
District Production Manager

LOVR/dg



**Southland Royalty Company**

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Attention:

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 11, 1979

Name: 

Title: District Production Manager



**Southland Royalty Company**

September 11, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico

Attention:

Re: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 8" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

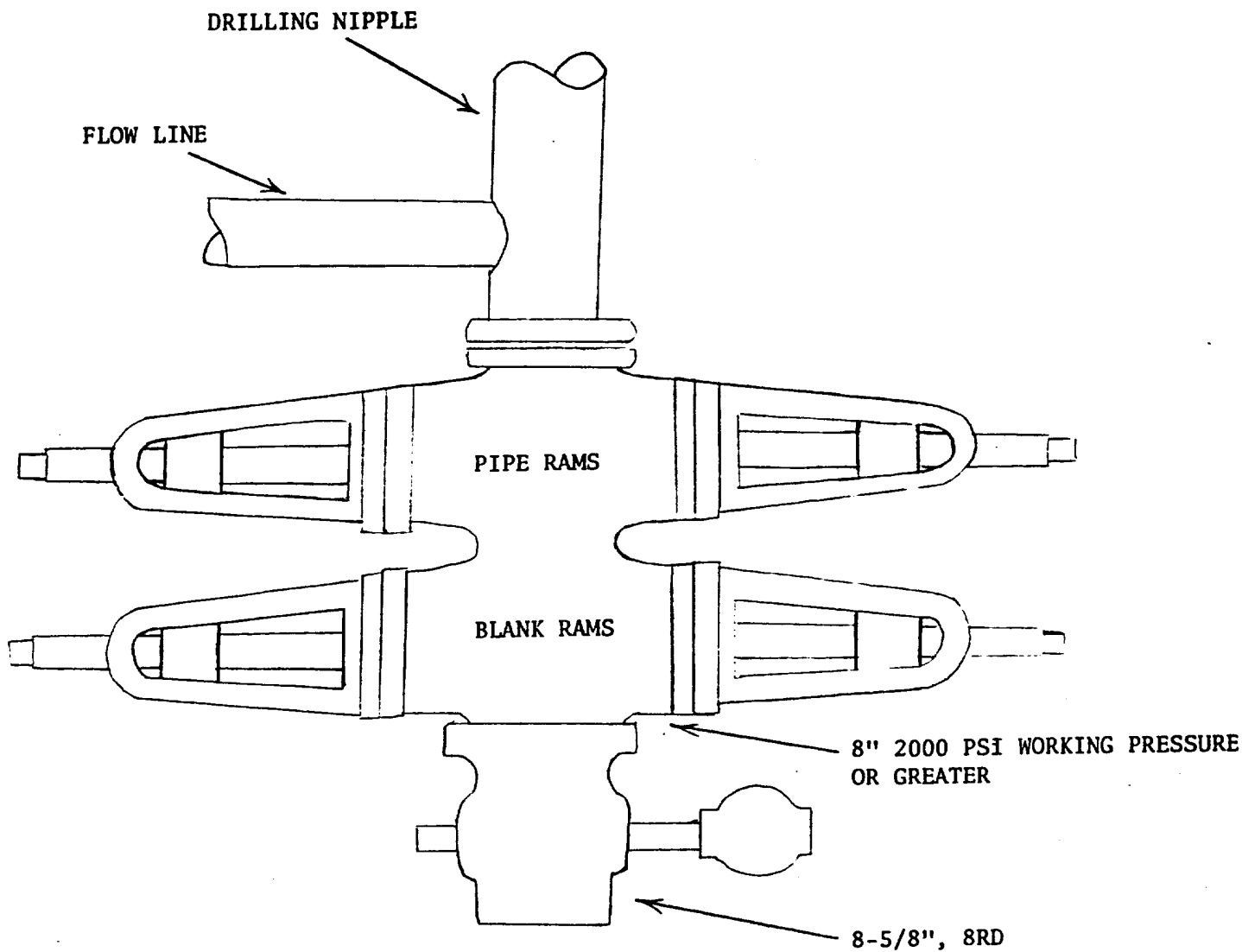
The preventer is 3000# working pressure and 6000# test.

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



PREVENTERS AND SPOOLS ARE TO HAVE THROUGH BORE OF 8" - 2000# OR LARGER

DRILLING SCHEDULE - REID PRI #2

Location: 1670' FSL & 1520' FWL, Section 13, T29N, R12W, San Juan County, New Mexico

Field Blanco Pictured Cliffs

Elevation: 5640 GR

Geology:

Formation Tops:	Ojo Alamo	920
	Fruitland	1440
	Pictured Cliffs	1705
	Total depth	1905

Logging Program: IES and GR-Density at total depth.

Coring Program : None

Natural Gauges : None

Drilling

Contractor:

Tool Pusher:

SRC Representative:

SRC Answering Service: 325-1841

Dispatch Number: 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. &amp; Grade</u>	
	12-1/4"	120'	8-5/8"	24#	K-55
	6-3/4"	1905'	2-7/8"	6.5#	K-55

Float Equipment

8-5/8" Surface Casing: Pathfinder cement guide shoe (#1003-1-010).

2-7/8" Production Casing: Notched collar guide shoe. Howco 2 7/8" latch down baffle (Pr. Ref. 60). Two 3 1/16" rubber balls and one 2 7/8" Omega latching plug (Pr. Ref. 59). Use 3 1/4" plug container head. Six (6) B & W stabilizers on bottom 6 joints.

Wellhead Equipment: 8 5/8" X 2 7/8", EUE, screwed head.

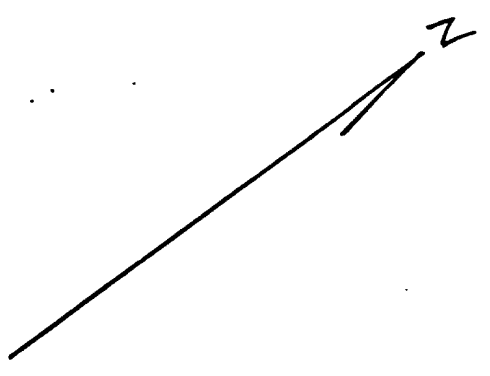
Cementing

8-5/8" Surface Casing: 84 cu. ft. (99 sxs) Class "B" with 1/4# gel flake per sx and 3% CaCl<sub>2</sub>. (100% excess)  
WOC 12 hrs, test to 600# prior to drilling out.

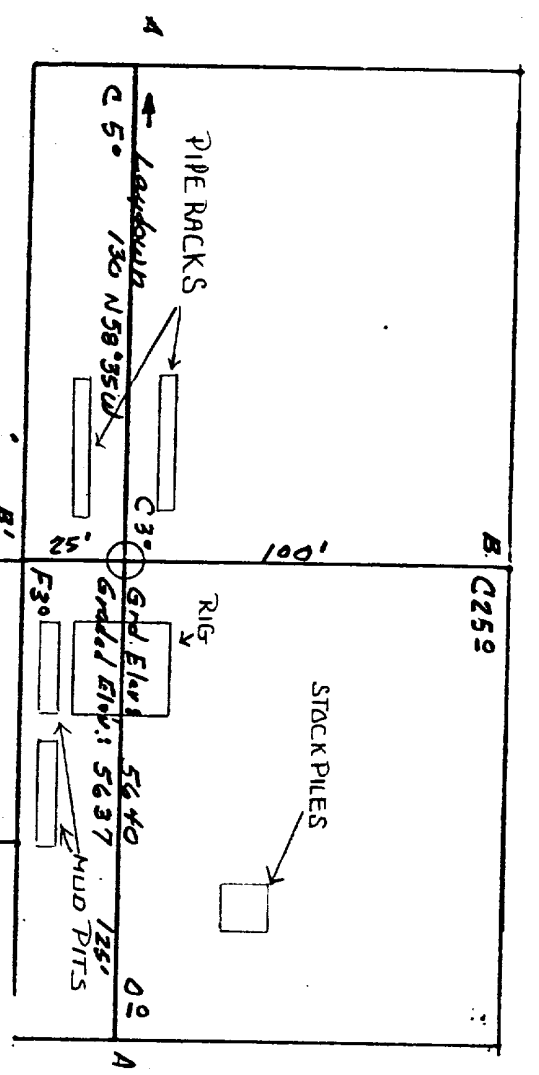
2-7/8" Production Casing: 162 cu. ft. (301 sxs) of 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sx to weigh 12.85 ppg. Tail in with 50 sxs Class "B" with 2% CaCl<sub>2</sub>. If lost circulation occurs add 1/4 cu. ft. fine gilsonite per sack. (50% excess to cover Ojo Alamo) Displace cement with 50 gals of 7 1/2% acetic acid. Run temperature survey in 8 hours.  
(50% excess)



SURVEY FOLIAGE FOR  
 SOUTHLAND ROYALTY COMPANY #2 REID PRI  
 1670' FSL 1520' FWL Sec 13-T29N-R12W  
 SAN JUAN COUNTY, NEW MEXICO



SCALE: 1" = 50'



Vert: 1" = 40'      A-1'      Horiz: 1" = 100'

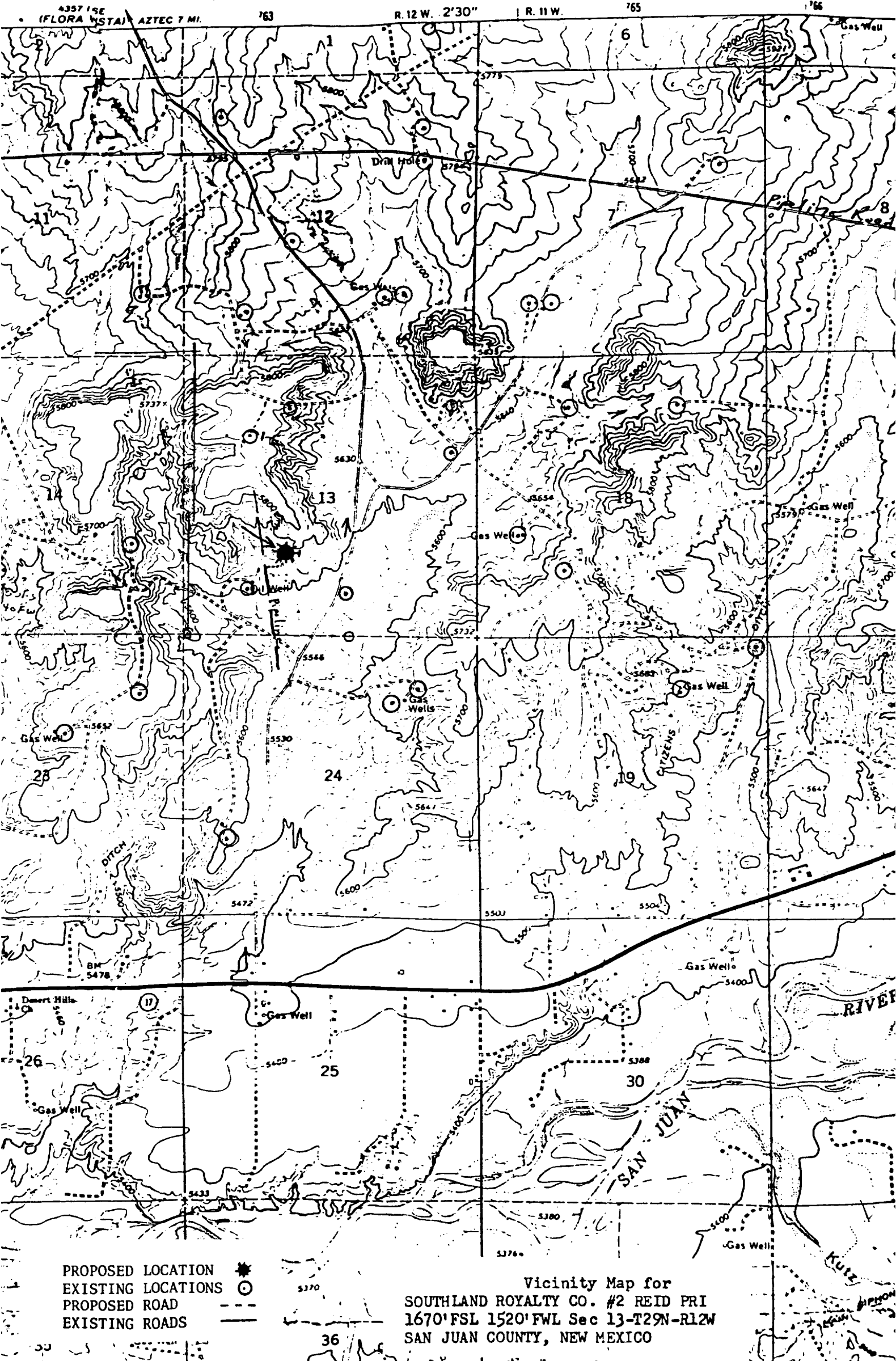
5660				
5650				
5640				
5630				

B-B'      &

5660				
5650				
5640				
5630				

Vert: 1" = 40'      C-C'      Horiz: 1" = 100'


D-D'      &

PROPOSED LOCATION    ★  
 EXISTING LOCATIONS    ○  
 PROPOSED ROAD        - - -  
 EXISTING ROADS        ———

Vicinity Map for  
 SOUTHLAND ROYALTY CO. #2 REID PRI  
 1670' FSL 1520' FWL Sec 13-T29N-R12W  
 SAN JUAN COUNTY, NEW MEXICO