

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, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1850' FNL & 1585' FEL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 15 miles NE of Bloomfield, NM

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 1585'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 350'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6385' GR

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#	140'	100 sx (Circ. to surf.)
6 3/4"	2 7/8"	6.5#	3260'	235 sx (Cover Ojo Alamo)

Surface formation is San Jose.
Top of Ojo Alamo sand is at 2166'.
Top of Pictured Cliffs sand is at 3085'.
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 December 31, 1980.
This depends on time required for approval, 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.

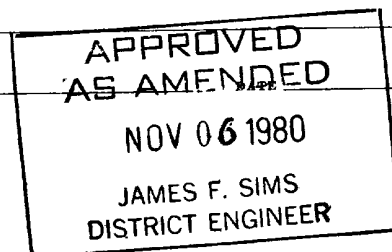
24. SIGNED R.E. Fielder TITLE District Engineer DATE 10-8-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



5. LEASE DESIGNATION AND SERIAL NO.

SF-078487

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hill

9. WELL NO.

#6

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 4, T29N, R8W

12. COUNTY OR PARISH 13. STATE

San Juan NM

17. NO. OF ACRES ASSIGNED TO THIS WELL

160 164.58

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

November 1, 1980

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

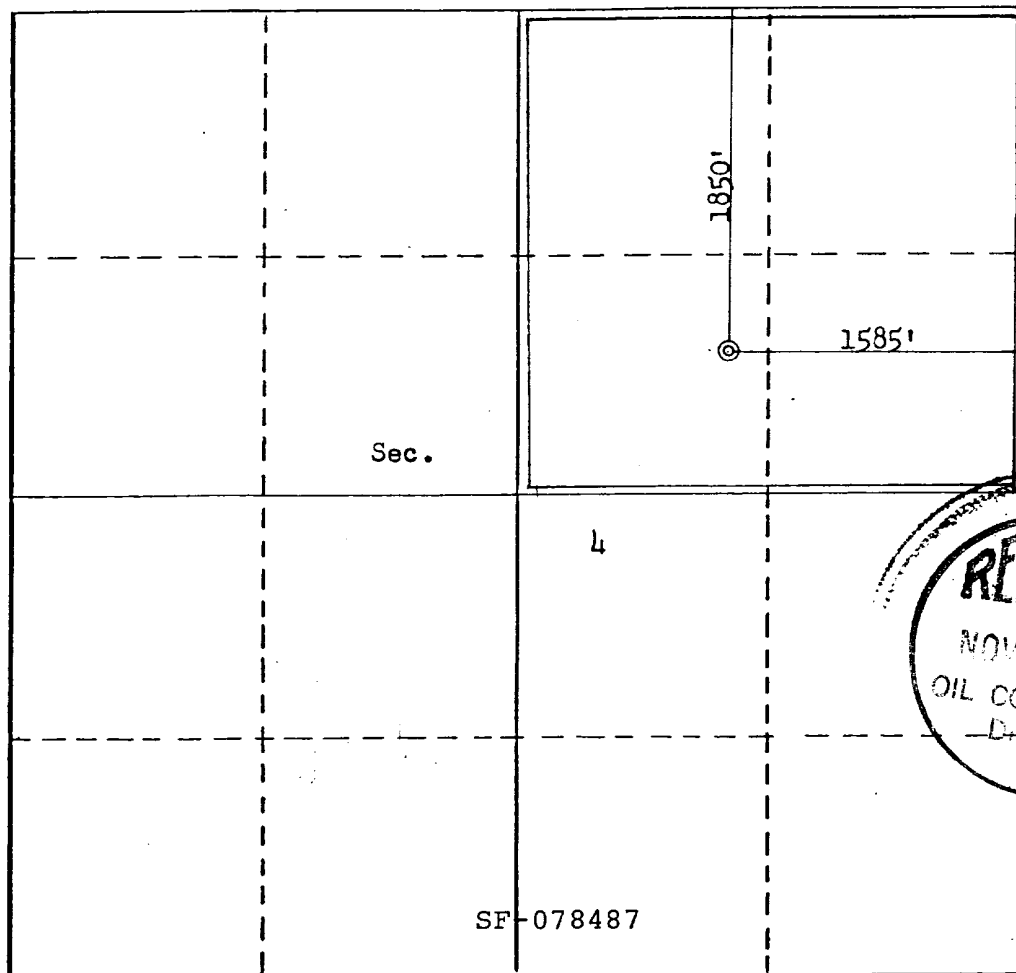
Operator SOUTHLAND ROYALTY COMPANY			Lease HILL		Well No. 6
Unit Letter G	Section 4	Township 29N	Range 8W	County San Juan	
Actual Footage Location of Well: 1850 feet from the North line and 1585 feet from the East line					
Ground Level Elev. 6385	Producing Formation Pictured Cliffs		Pool Blanco		Dedicated Acreage: 160/64.58 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.

R. E. Fielder
Name

Robert E. Fielder

Position

District Engineer

Company

Southland Royalty Co.

Date

October 8, 1980

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

May 22, 1980
Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.
Fred B. Kerr, Jr.

Certification No.

3950 B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2000 1800 1000 500 0

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

H I L L # 6

1850' FNL & 1585' FEL
Section 4, T29N, R8W
San Juan County, NM

Field: Blanco Pictured Cliffs

Elevation: 6385' GR

Geology: Formation Tops -

Ojo Alamo	2166'
Fruitland	2757'
Pictured Cliffs	3085'
Total Depth	3260'

Logging Program: IES and GR-Density at Total Depth.

Drilling:

Contractor:

Tool Pusher:

SRC Answ. Svc.: 325-1841

SRC Rep.:

SRC Dispatch No.: 325-7391

Mud Program: Fresh water mud from surface to TD.

Materials:

Casing Program -	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>	
	12 1/4"	140'	8 5/8"	24#	K-55
	6 3/4"	3260'	2 7/8"	6.5#	K-55

Float Equipment:

8 5/8" surface casing: B & W cement guide shoe (FC01).

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 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: 118 cu. ft. (100 sx) Cl "B" w/1/4# gel flake per sx & 3% CaCl_2 . (100% excess.)

2 7/8" production casing: 335 cu. ft. (185 sx) of 50/50 Cl "B" poz w/6% gel mixed w/7.2 gals water per sx to weigh 12.85 ppg. Tail in w/50 sx Cl "B" w/2% CaCl_2 . (50% excess to cover Ojo Alamo.) Displace cement w/50 gals 7 1/2% acetic acid. Run temperature survey after 12 hours.

L. O. Van Ryan
District Production Manager

JAC/ke

9-29-80



Southland Royalty Company

October 8, 1980

United States Geological Survey
Mr. James F. Sims
District Oil and Gas Supervisor
P. O. Box 959
Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Mr. Sims:

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

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

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

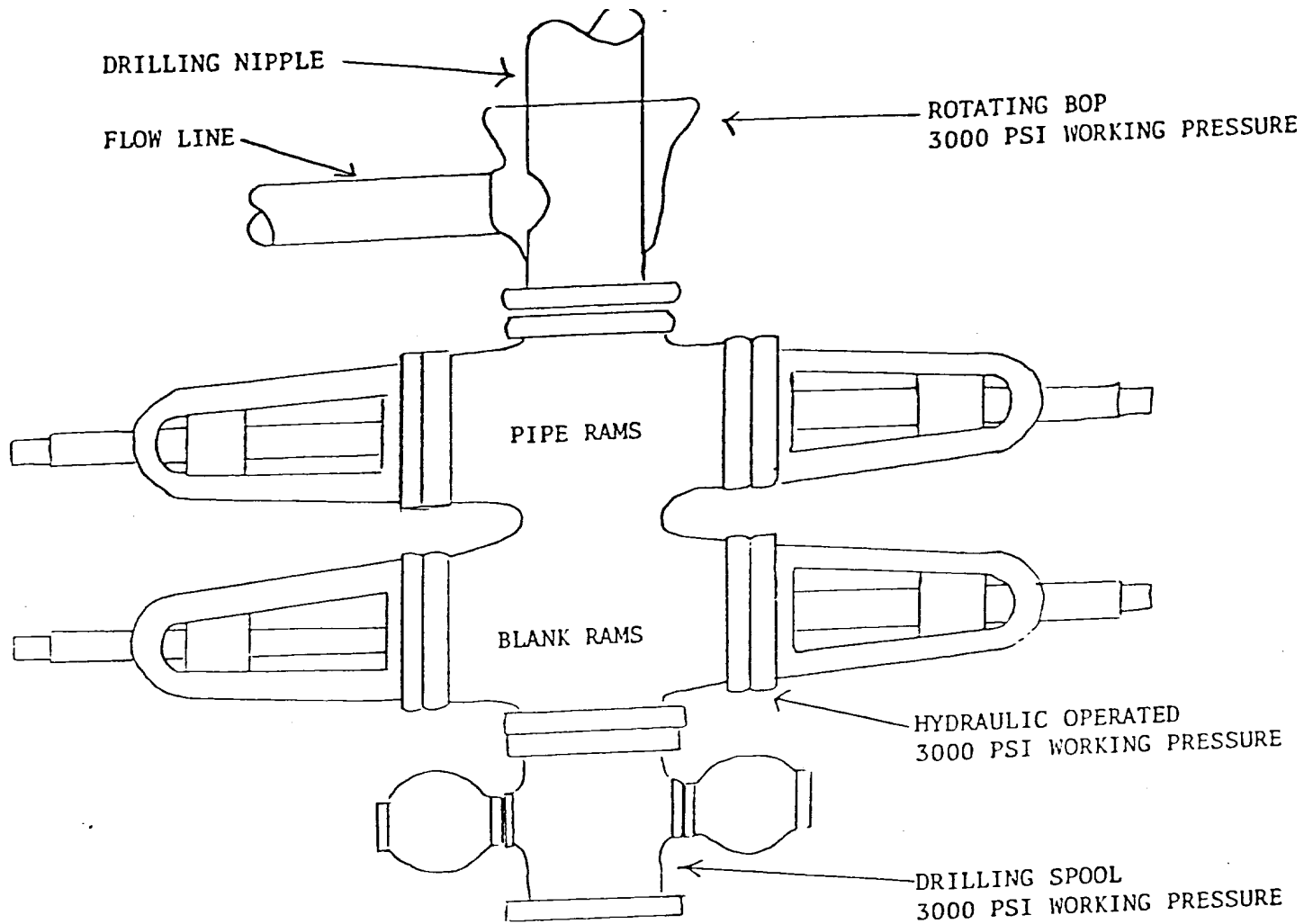
Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder
District Engineer

REF/ke

Southland Royalty Company
Hill #6
Section 4, T29N, R8W
San Juan County, NM



PREVENTERS AND SPOOLS ARE TO HAVE
THROUGH BORE OF 6" - 3000 PSI OR LARGER



Southland Royalty Company

December 8, 1980

United States Geological Survey
Mr. James F. Sims
District Oil and Gas Supervisor
P. O. Box 959
Farmington, NM 87401

Dear Mr. Sims:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Hill #6 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.

There will be no camps or airstrips.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

Water supply for this well will be San Juan River.

The terrain is rolling hills with sagebrush. The location will be restored according the 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. Either he or myself may be reached anytime at 325-7391.

Sincerely,

SOUTHLAND ROYALTY COMPANY

R. E. Fielder

Robert E. Fielder
District Engineer

REF/ke



Southland Royalty Company

December 8, 1980

United States Geological Survey
Mr. James Sims
P. O. Box 595
Farmington, NM 87401

Dear Sir:

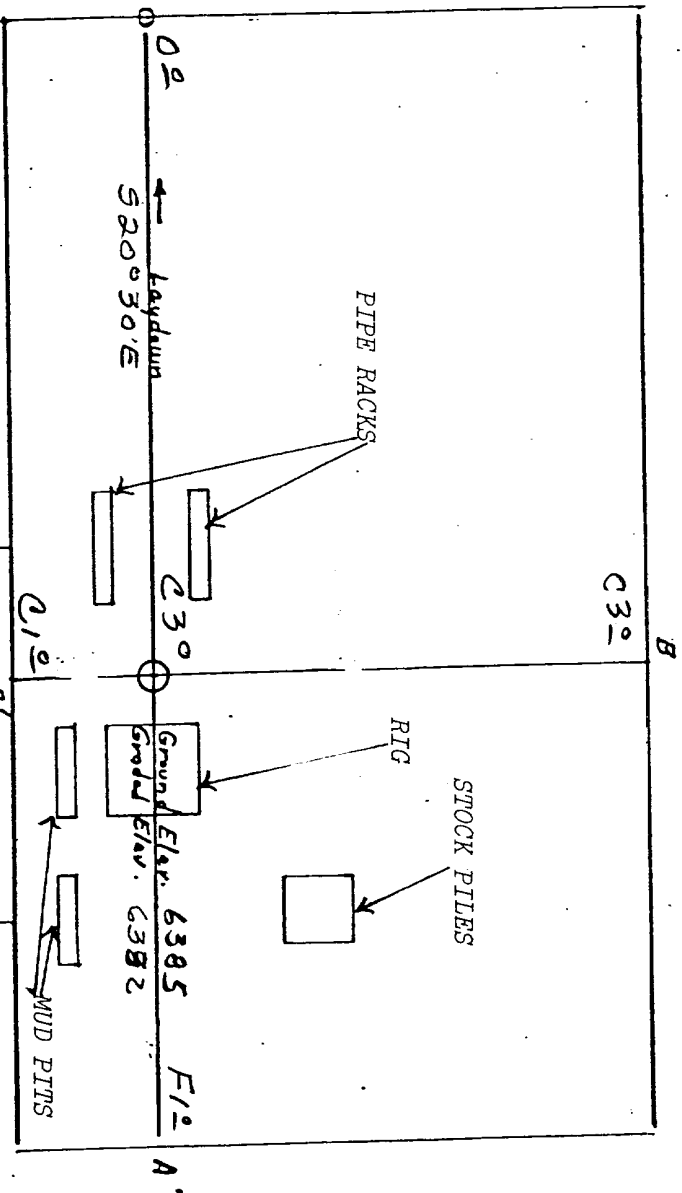
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will 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:


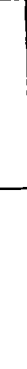
L. O. Van Ryan
District Production Manager

LOVR/ke

SOUTHLAND ROYALTY CO. #6 HILL
1850' FNL 1585' FEL Sec. 4-T29N-R8W
SAN JUAN COUNTY, NEW MEXICO

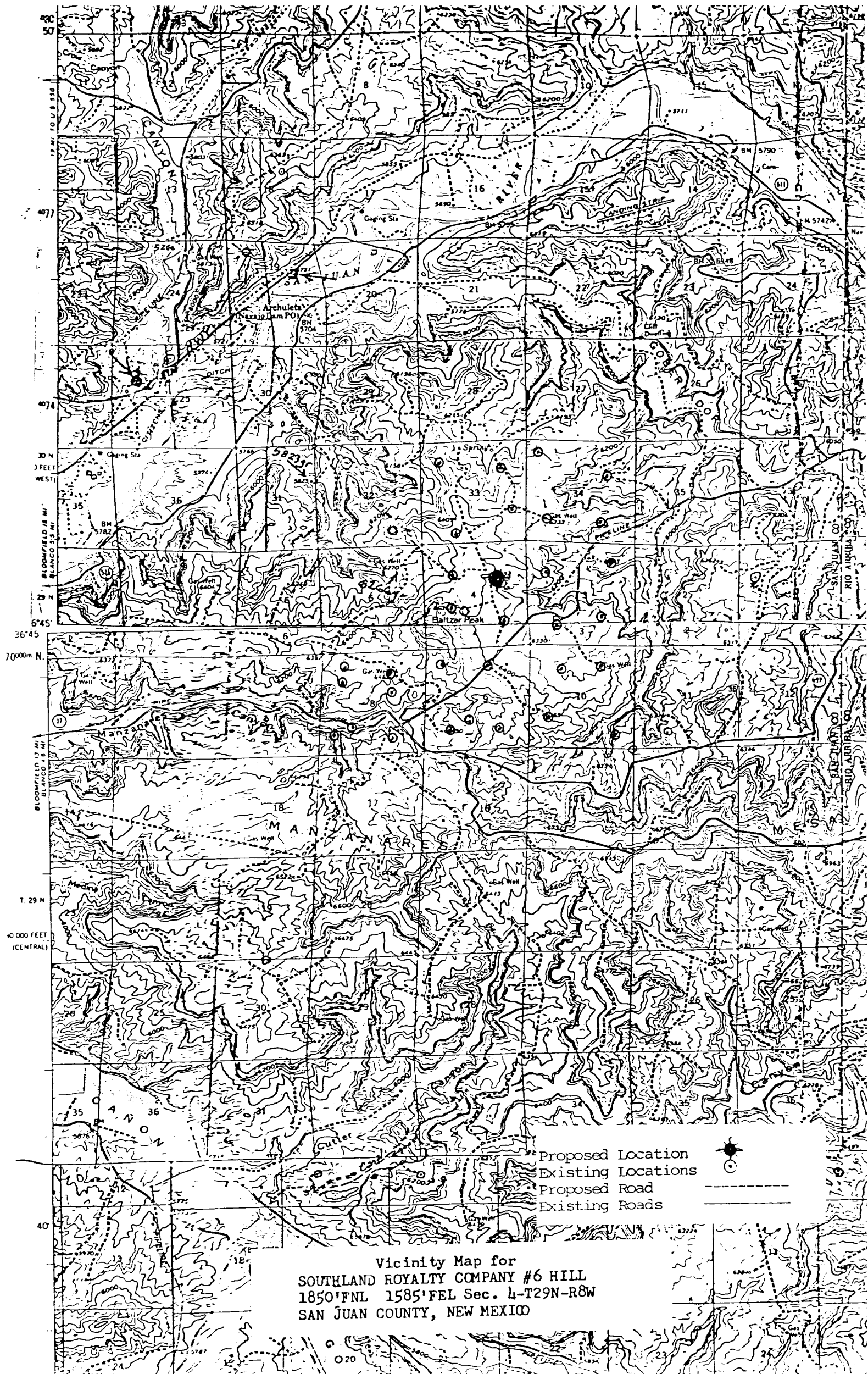


Vert. $1''=40'$	A - A'	Horiz. $1''=100'$
6390		
6380		
6370		

B-B'		£
6390		
6380		
6370		

[illegible][illegible]

KERR LAND SURVEYING
Date: May 24, 1980



Vicinity Map for
SOUTHLAND ROYALTY COMPANY #6 HILL
1850'FNL 1585'FEL Sec. 4-T29N-R8W
SAN JUAN COUNTY, NEW MEXICO