

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 surfaceG 1580' FNL & 1670' FEL  
At proposed prod. zone

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

Approximately 1 1/2 miles southeast of Aztec, NM

## 15. DISTANCE FROM PROPOSED\*

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

970'

## 16. NO. OF ACRES IN LEASE

742.03

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

600'

## 19. PROPOSED DEPTH

7236'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6091' GR

## 22. APPROX. DATE WORK WILL START\*

September 15, 1980

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	10 3/4"	32.75#	200'	189 sacks
9 7/8"	7 5/8"	26.40#	4835'	160 sacks (#1) 354 sacks (#2)
6 1/4"	5 1/2"	15.50#	4685'-7236'	140 sacks

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1163'.

Top of Pictured Cliffs sand is at 2586'.

Free water mud will be used to drill from surface to Intermediate TD.

An air system will be used to drill from Intermediate TD to Total Depth.

It is anticipated that an IES and a GR-Density log will be run at Intermediate Total Depth.  
and a GR-Induction 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.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

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

Curtis C. Parsons

TITLE District Engineer

DATE 4-16-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

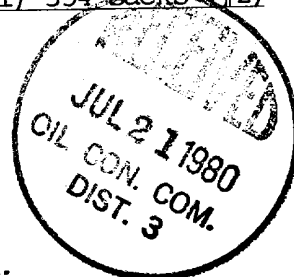
CONDITIONS OF APPROVAL, IF ANY:

NMOC

APPROVED  
AS AMENDED  
DATEJUL 18 1980  
James F. Sims  
DISTRICT ENGINEER

NW 4 3-563

L. B. Smith



All distances must be from the outer boundaries of the Section

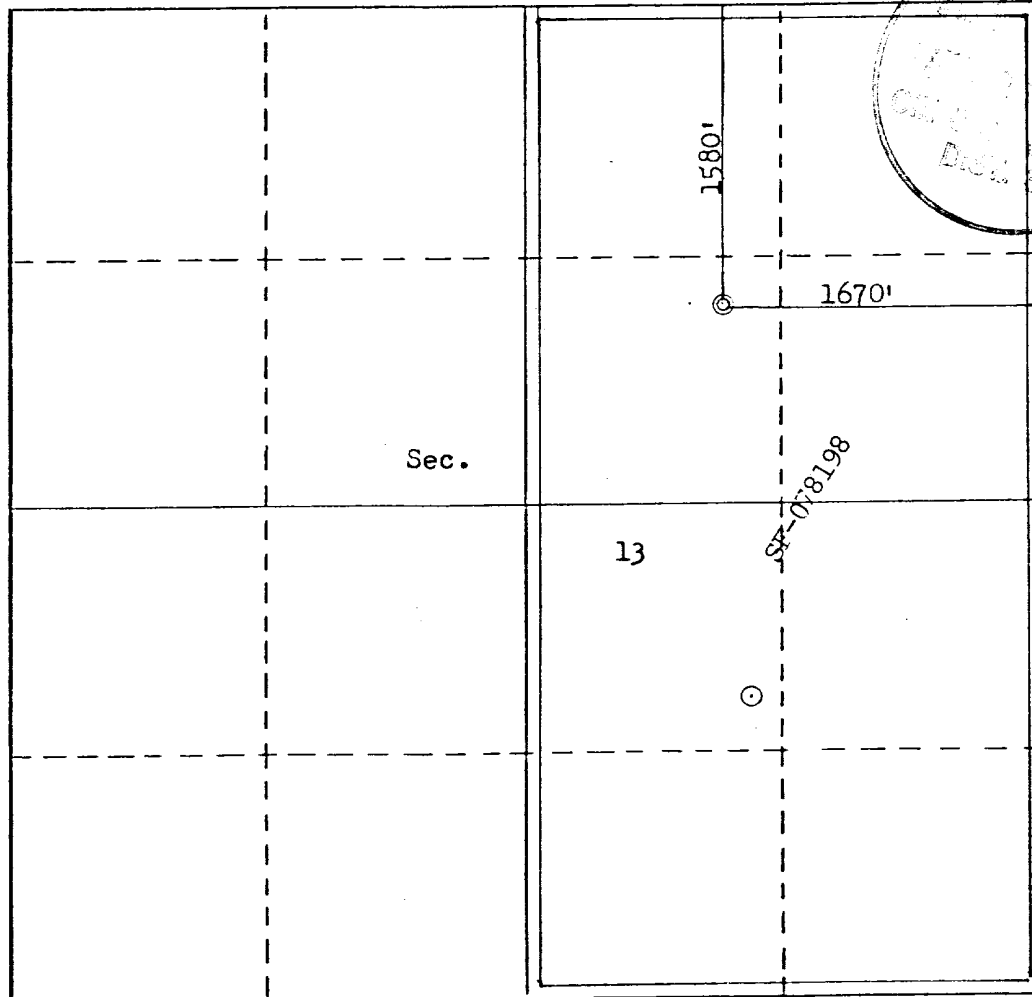
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>NYE</b>		Well No. <b>14-E</b>
Unit Letter <b>G</b>	Section <b>13</b>	Township <b>30N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well:					
1580 feet from the North line and		1670 feet from the East line			
Ground Level Elev. <b>6091</b>	Producing Formation <b>Dakota - Mesa Verde</b>		Pool <b>Basin - Blanco</b>	Dedicated Acreage: <b>320 E/313.14 Acres</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.

*Curtis C. Parsons*

Name

Curtis C. Parsons

Position

District Engineer

Company

Southland Royalty Company

Date

April 16, 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

February 16, 1980

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr, Jr.*

Certificate No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

NYE #14E  
1580' FNL & 1670' FEL  
Sec. 13, T30N, R11W  
San Juan County, New Mexico

Field: Blanco Mesa Verde/Basin Dakota Elevation: 6091' GR

Geology:

Formation Tops:	Ojo Alamo	1163'	Point Lookout	4878'
	Fruitland	2277'	Gallup	6142'
	Pictured Cliffs	2586'	Greenhorn	6885'
	Chacra	3413'	Graneros	6994'
	Cliff House	4182'	Dakota	7077'
	Intermediate TD	4835'	Total Depth	7236'

Logging Program: IES and GR-Density will be run at Intermediate Total Depth.  
GR-Induction and GR-Density will be run at Total Depth.

Drilling:

Contractor:

Tool Pusher:

SRC Representative:

SRC Answering Service: 325-1841  
Dispatch Number: 325-7391

Mud Program: Drill with fresh water mud from surface to Intermediate TD.  
Drill with air from Intermediate TD to Total Depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	14 3/4"	200'	10 3/4"	32.75# H-40
	9 7/8"	4835'	7 5/8"	26.40# K-55
<u>Float Equipment:</u>		4835'-7236'	5 1/2"	15.5# K-55 & N-80

10 3/4" Surface Casing: Pathfinder type "A" guide shoe.

7 5/8" Production Casing: Pathfinder type "A" guide shoe. Self-fill insert float valve. 5 bow-type centralizers. Run float valve 2 jts. above shoe. Run centralizers every other jt. above shoe. Dowell stage tool at 2731' and 4835'. Run cement basket below and 5 centralizers above tool.

5 1/2" Liner: TIW liner hanger with neoprene pack-off. Pathfinder type "AP" guide shoe and type "A" float valve.

Wellhead Equipment: 10 3/4" X 10", 2000# casing head.  
10", 2000# X 6", 2000# tubing head.

Cementing:

10 3/4" Surface Casing: 189 sacks (223 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3%  $\text{CaCl}_2$ . WOC for 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

7 5/8" Intermediate Casing: STAGE ONE - 110 sacks (164 cu. ft.) of 50/50 Class "B" Poz with 6% gel (mixed w/7.2 gals. water per sack). Tail in with 50 sacks of Class "B" Neat. (Volume is 50% excess to cover top of Cliff House.)

STAGE TWO - 284 sacks (505 cu. ft.) of 50/50 Poz with 6% gel, followed by 70 sacks of Class "B" with 2%  $\text{CaCl}_2$ . (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions. WOC for 12 hours. Test to 100 psi prior to drilling out.

5 1/2" Liner: 140 sacks (208 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack and .6% Halad 9 or equivalent. (Volume is 70% excess.)

Precede cement with 20 barrels of gel water.

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L. O. Van Ryan  
District Production Manager



**Southland Royalty Company**

April 16, 1980

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Sir:

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

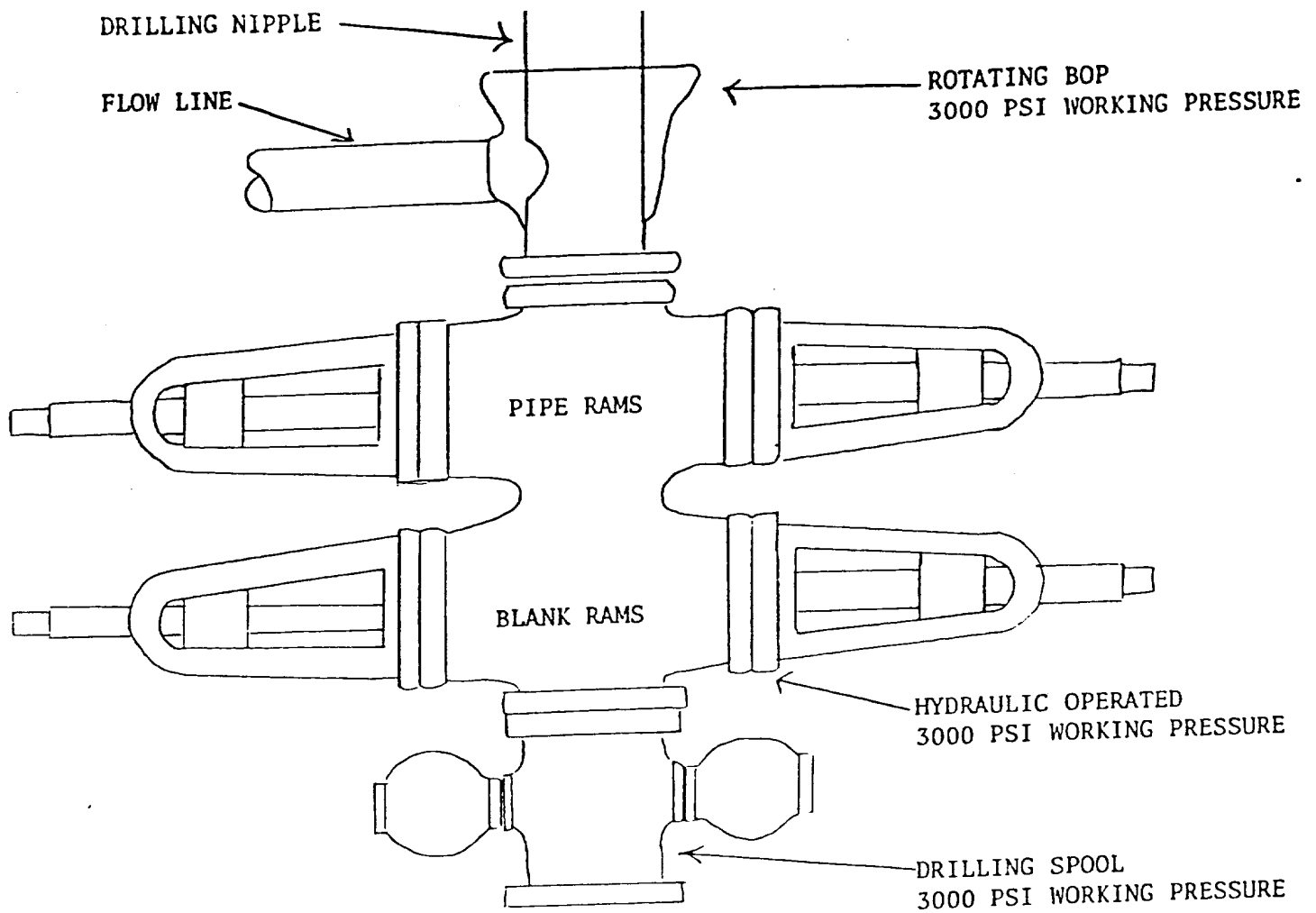
The preventer is 3000# working pressure and 6000# test pressure.

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

Yours truly,

Curtis C. Parsons  
District Engineer

CCP/ke



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

Southland Royalty Company  
Nye #14E  
1580' FNL & 1670' FEL  
Section 13, T30N, R11W  
San Juan County, New Mexico



**Southland Royalty Company**

April 16, 1980

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Nye #14E 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 will be the Aztec Ditch.

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,

Curtis C. Parsons  
District Engineer

CCP/ke



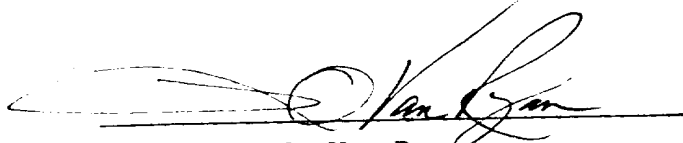
**Southland Royalty Company**

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.

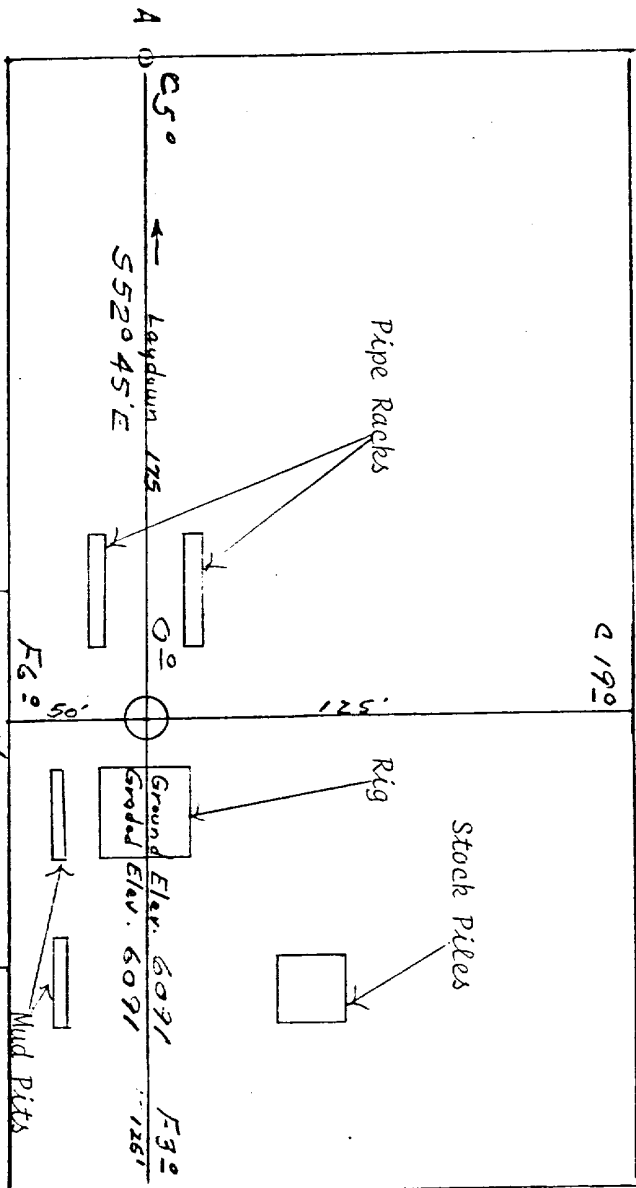
Date: April 16, 1980

  
L. O. Van Ryan  
District Production Manager

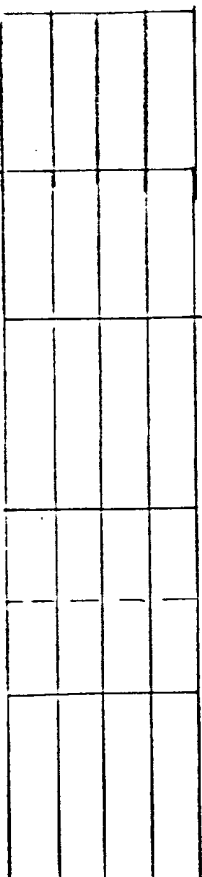
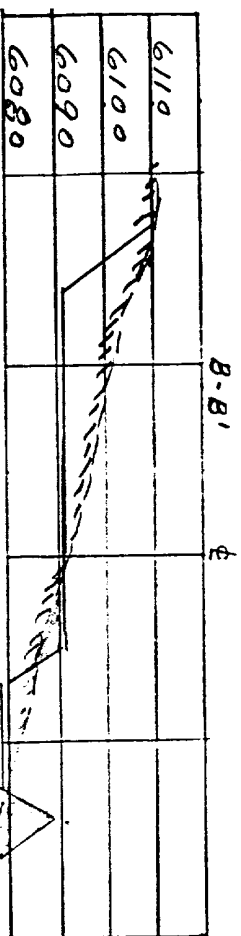
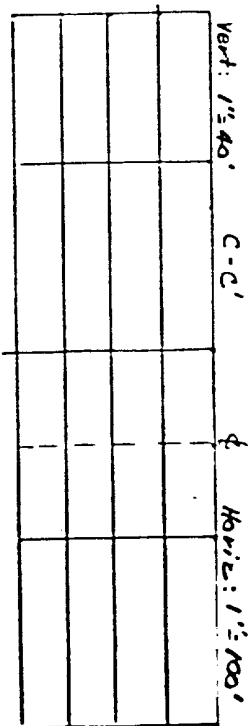
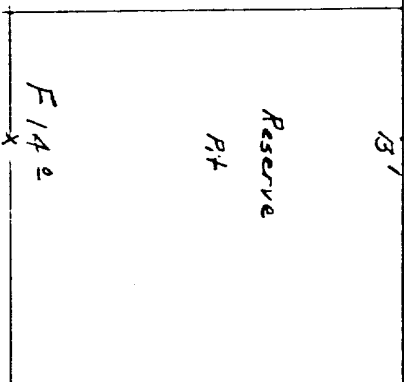
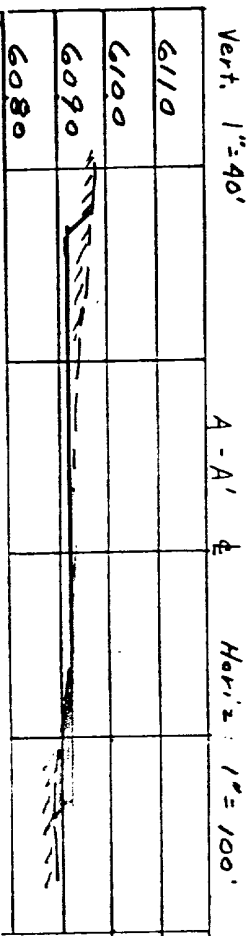
LOVR/ke



San Juan County, New Mexico

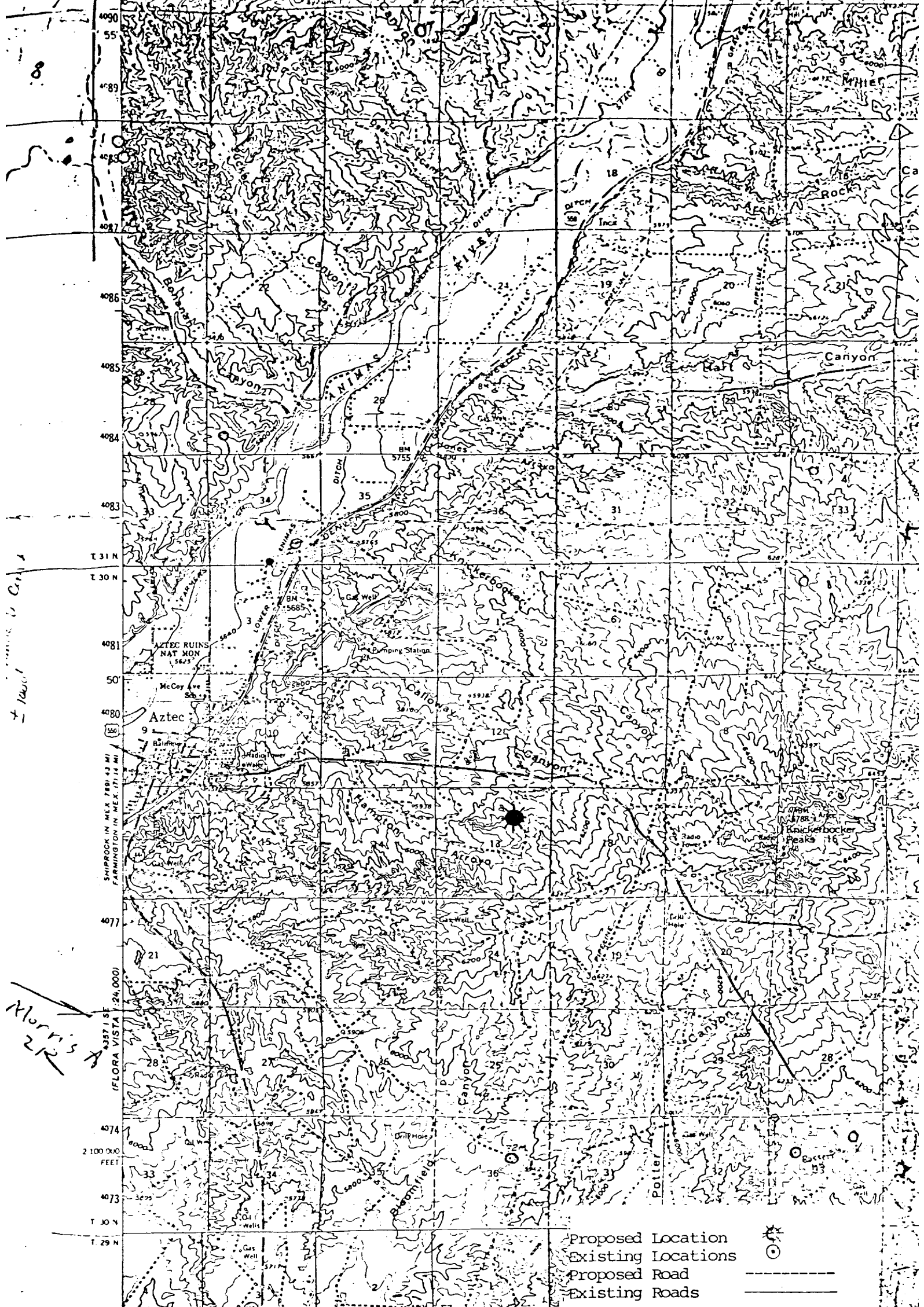


Scale: 1" = 50'



KERR LAND SURVEYING  
Date: 2/27/80

SECRET



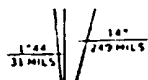
Handwritten notes on the left margin: "Morris" and "212" with an arrow pointing to a specific location on the map.

Handwritten note: "Morris" with an arrow pointing to a specific location on the map.

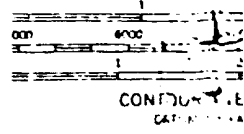
Handwritten note: "357 H.M.E. (HORN CANYON) 1:24,000"

Mapped, edited, and published by the  
Control by USGS and USC&GS  
Topography by photogrammetric method  
Photographs taken 1955. Field checked  
Polyconic projection 1927 North American datum  
10 000 foot grid based on New Mexico coordinate system,  
west zone  
1000 meter Universal Transverse Mercator grid ticks,  
zone 13, shown in blue  
Red tint indicates area in which only landmark buildings are shown

Vicinity Map for  
SOUTHLAND ROYALTY COMPANY 14-E NYE  
1580'FNL 1670'FEL Sec 13-T30N-R11W  
SAN JUAN COUNTY, NEW MEXICO



- Proposed Location
- Existing Locations
- Proposed Road
- Existing Roads



CONTINUED