

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-145-245-93

5. LEASE DESIGNATION AND SERIAL NO.

NM-19569

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

TSAYA

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Wildcat *Dakota*

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

Section 4, T22N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

17. NO. OF ACRES ASSIGNED
TO THIS WELL

159.58

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

September 15, 1980

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

840' FNL & 1780' FWL

At proposed prod. zone

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

Approximately 21 miles west of Counselors, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

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

6170' 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#	400'	140 sx. Circ. to surface
7 7/8"	4 1/2"	10.5#	4700'	250 sx. Cover Gallup

DEVELOPMENT OF THIS WELL IS SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

This action is subject to administrative appeal pursuant to 30 CFR 290.

Surface formation is Pictured Cliffs.
Top of Point Lookout sand is at 2470'.
Top of Gallup sand is at 3480'.

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

It is anticipated that an IES, GR-NEUT-DEN, and Saraband logs will be run at TD.

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 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

R. E. Field

TITLE District Engineer

DATE 8-5-80

(This space for Federal or State office use)

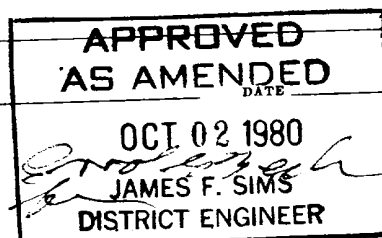
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



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

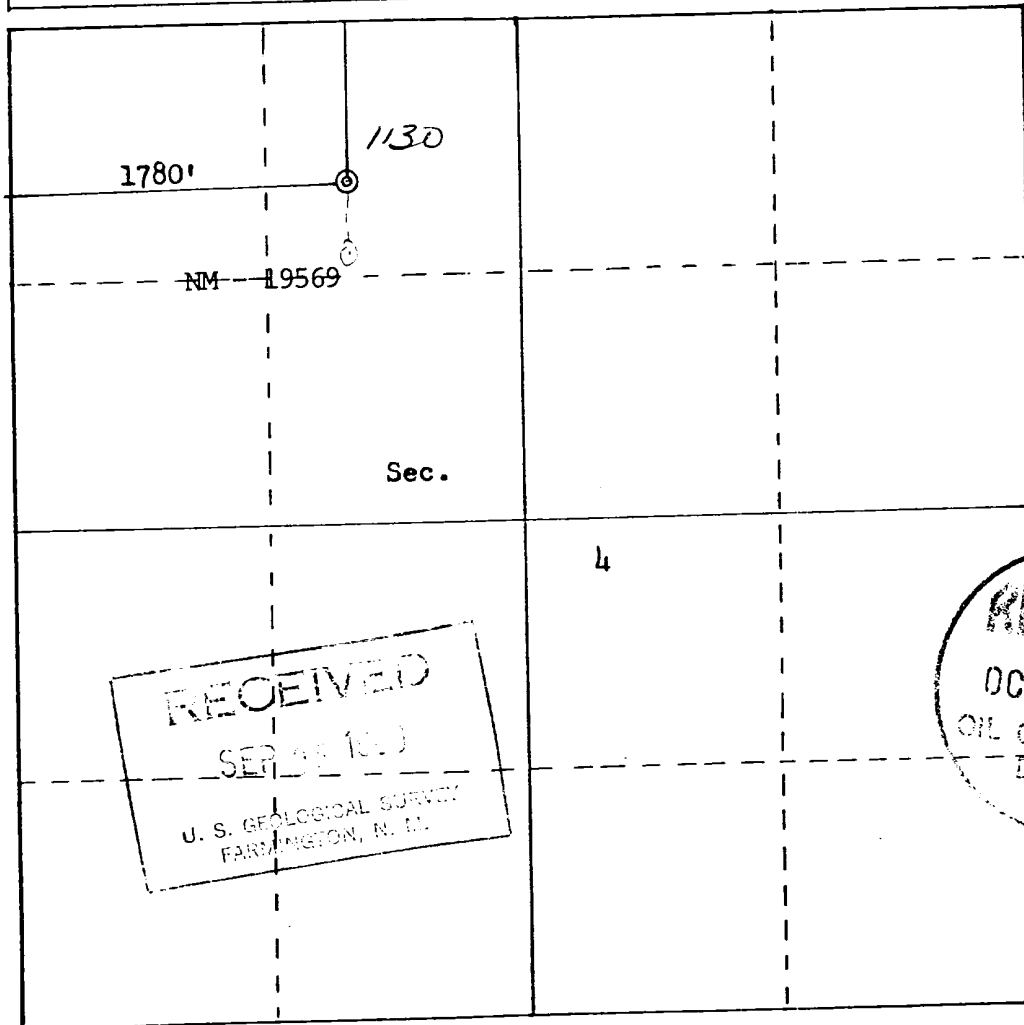
Operator SOUTHLAND ROYALTY COMPANY			Lease TSAYA		Well No. 2
Unit Letter C	Section 4	Township 22N	Range 12W	County San Juan	
Actual Footage Location of Well: 840 1130 feet from the North line and 1780 feet from the West line					
Ground Level Elev: 6170	Producing Formation Wildcat Dabota		Pool Wildcat		Dedicated Acreage: 159.58 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.



Scale: 1"=1000'

CERTIFICATION

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

R. E. Fielder

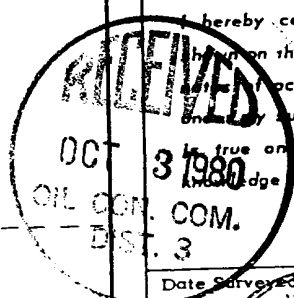
Name
Robert E. Fielder

Position
District Engineer

Company
Southland Royalty Company

Date
September 5, 1980

I hereby certify that the well location shown on this plat was plotted from field notes and 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 30, 1980

Registered Professional Engineer
and Land Surveyor

Fred B. Kerr Jr.

Certificate No.
3950

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

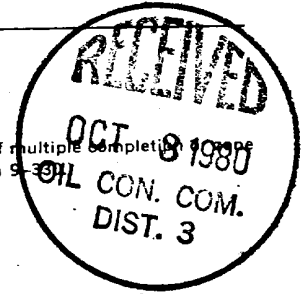
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other
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. See space 17 below.)
AT SURFACE: 1130' FNL & 1780' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- | REQUEST FOR APPROVAL TO: | SUBSEQUENT REPORT OF: |
|---|--------------------------|
| TEST WATER SHUT-OFF <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON* <input type="checkbox"/> | <input type="checkbox"/> |
| (other) <u>Move Location XX</u> | |

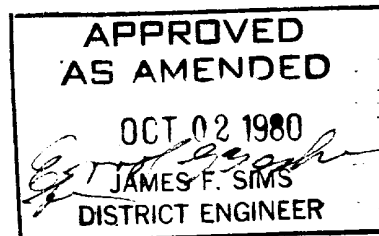
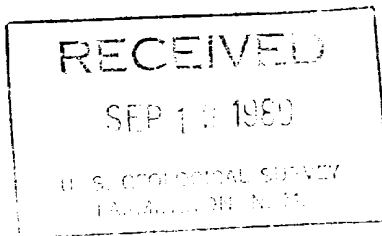
5. LEASE
NM-19569
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
TSAYA
9. WELL NO.
#2
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 4, T22N, R12W
12. COUNTY OR PARISH
San Juan
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion tests change on Form 9-331)



17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Southland Royalty Company proposes to move location from 840' FNL & 1780' FWL to 1130' FNL & 1780' FWL of Section 4, T22N, R12W as requested by archaeologist to avoid archaic site.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. E. Fidler TITLE District Engineer DATE 9-18-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions on Reverse Side

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

T S A Y A # 2

840' FNL & 1780' FWL
Sec. 4, T22N, R12W
San Juan Cnty., NM

Field: Wildcat

Elevation: 6170'

Geology: Formation Tops

Menefee	470'	Greenhorn	4280'
Pt. Lookout	2470'	1st Dakota	4475'
Mancos	2600'	2nd Dakota	4500'
Gallup	3480'	Total Depth	4700'

Logging Program: IES, GR-NEUT-DEN, Saraband from TD to surface casing.
Collect samples every 30' from surface casing to 2000',
and 10' samples from 2000' to TD.

Coring Program: None

Drill Stem Test: One in Dakota as warranted by shows. One man mud log
unit from surface casing to TD.

Drilling: Contractor:
SRC Rep.:

Tool Pusher:
SRC Answ. Svc.: 325-1841
Dispatch: 325-7391

Mud Program:	0' - 200'	Spud mud
	200' - 4350'	Benex & water
	4350' - TD	Fresh water, low solids

NOTE: Watch for possible water flow in the Gallup. May be necessary
to weight up to \pm 9.6 ppg to control.

Materials: Casing Program

<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>
12 1/4"	400'	8 5/8"	24# K-55
7 7/8"	4700'	4 1/2"	10.5# K-55

Float Equipment

8 5/8" surface casing - B & W regular cement guide shoe.

4 1/2" production casing - B & W cement guide shoe. Flapper type
self-fill float collar one joint off bottom. 5 B & W rigid stabil-
izers ran every other joint above shoe.

Wellhead Equipment

8 5/8" X 10", 2000# braden head with 4 1/2" casing hanger.
10", 2000# X 6", 2000# tubing head and tree.

Cementing:

8 5/8" surface casing - 140 sacks of Class "B" with 1/4# gel flake and 3% CaCl_2 . (100% excess.) WOC for 12 hours and test to 600 psi before drilling out. (165 cu. ft.)

4 1/2" production casing - 200 sacks of 50/50, Class "B" Poz with 6% gel mixed with 7.2 gallons of water per sack to weigh 12.85 ppg. (25% excess to cover Gallup.) Tail in with 50 sacks of Class "B". (355 cu. ft.)

L. O. Van Ryan
District Production Manager

JAC/ke



Southland Royalty Company

September 5, 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 TSAYA #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.

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 Coal Creek Wash Waterhole.

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

Robert E. Fielder
District Engineer

REF/ke



Southland Royalty Company

September 5, 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
or larger double hydraulic blowout preventers and a hydraulic
closing unit.

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.

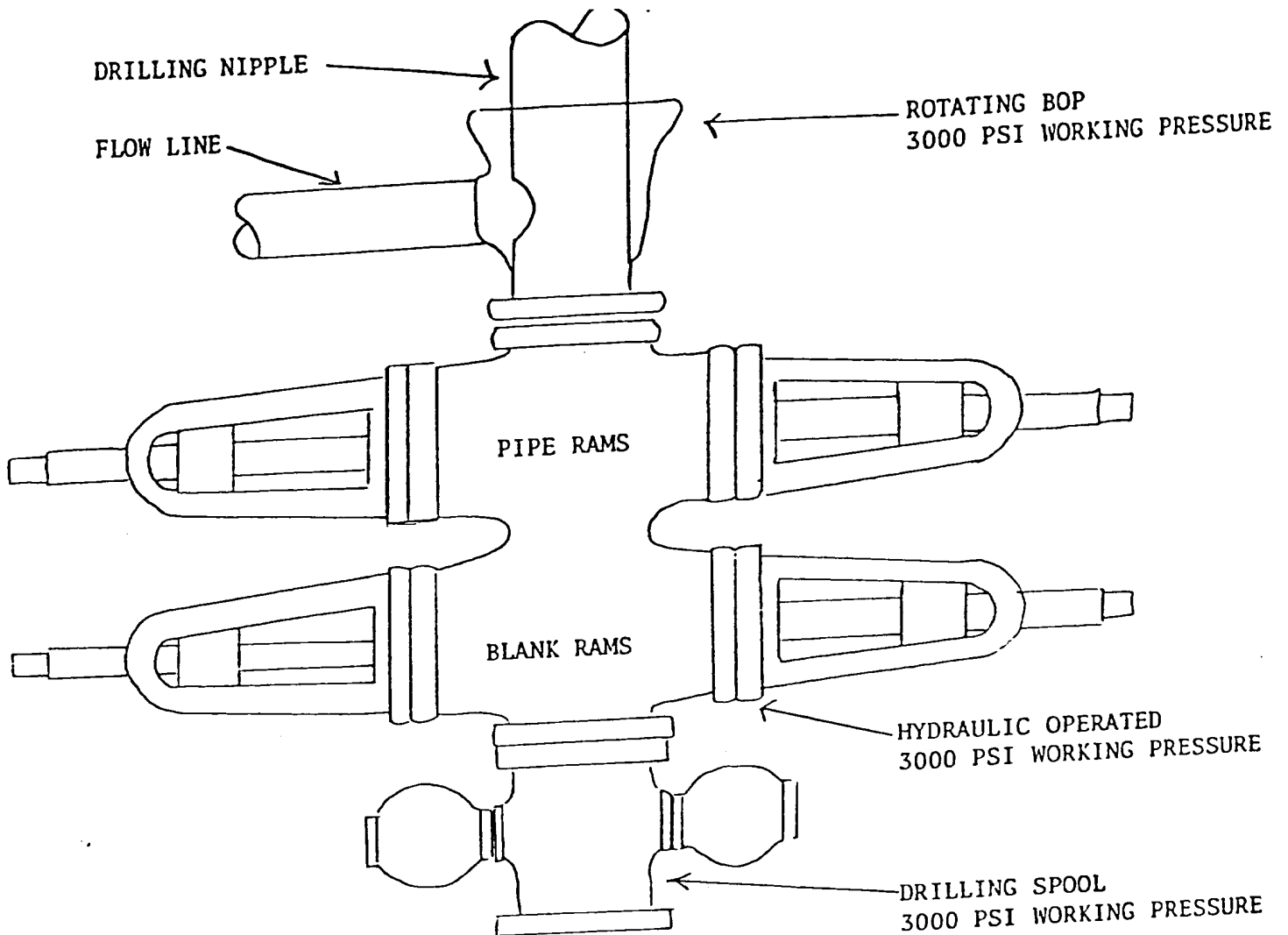
Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder
District Engineer

REF/ke

Southland Royalty Company
TSAYA #2
840' FNL & 1780' FWL
Sec. 4, T22N, R12W
San Juan County, NM



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



Southland Royalty Company

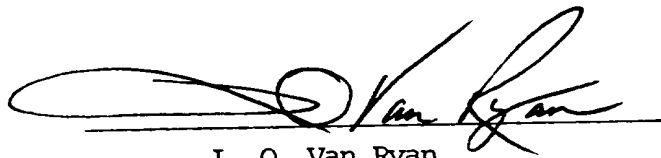
September 5, 1980

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.

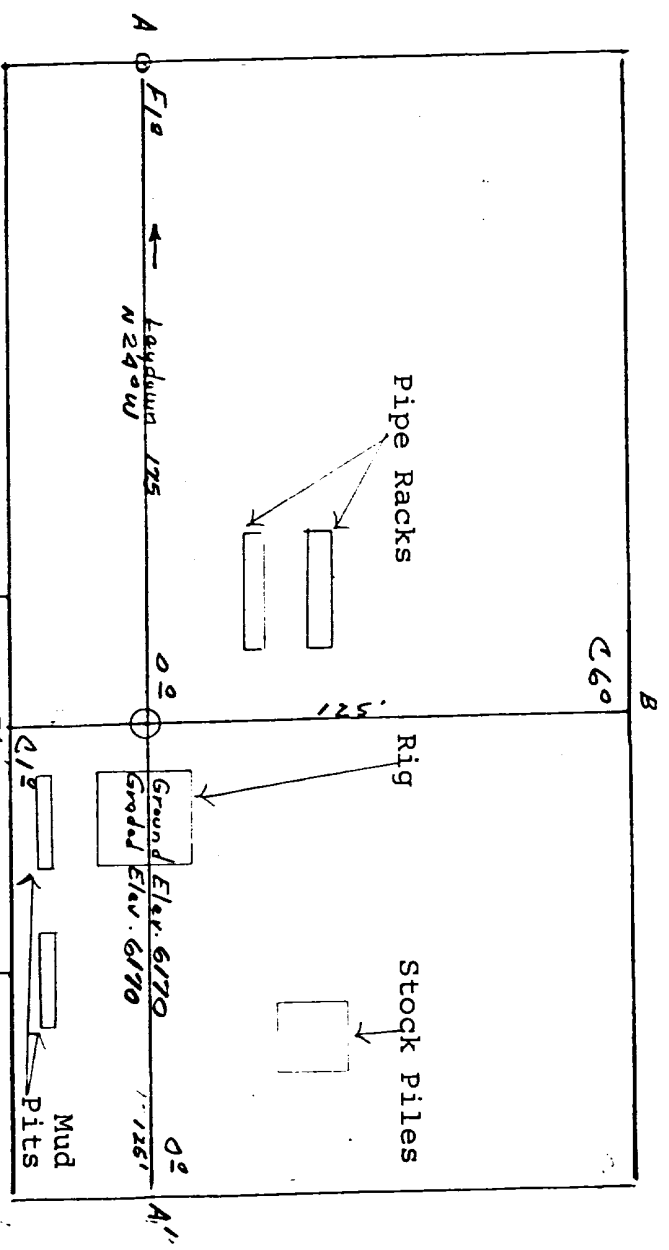
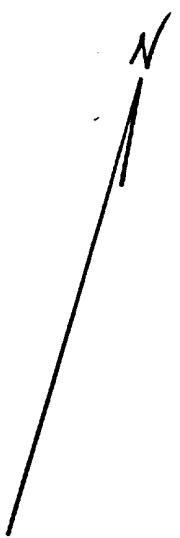
Date:



L. O. Van Ryan
District Production Manager

LOVR/ke

Profile for
 SOUTHLAND ROYALTY CO. #2 TSAYA
 84.0' FNL 1780' FWL Sec. 4-T22N-R12W
 SAN JUAN COUNTY, NEW MEXICO



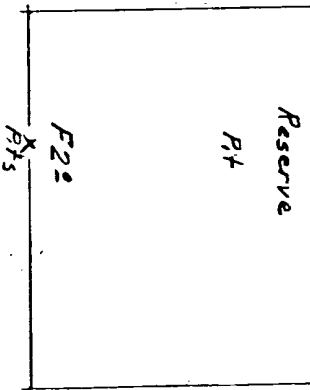
Scale: 1" = 50'

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

6180					
6170					

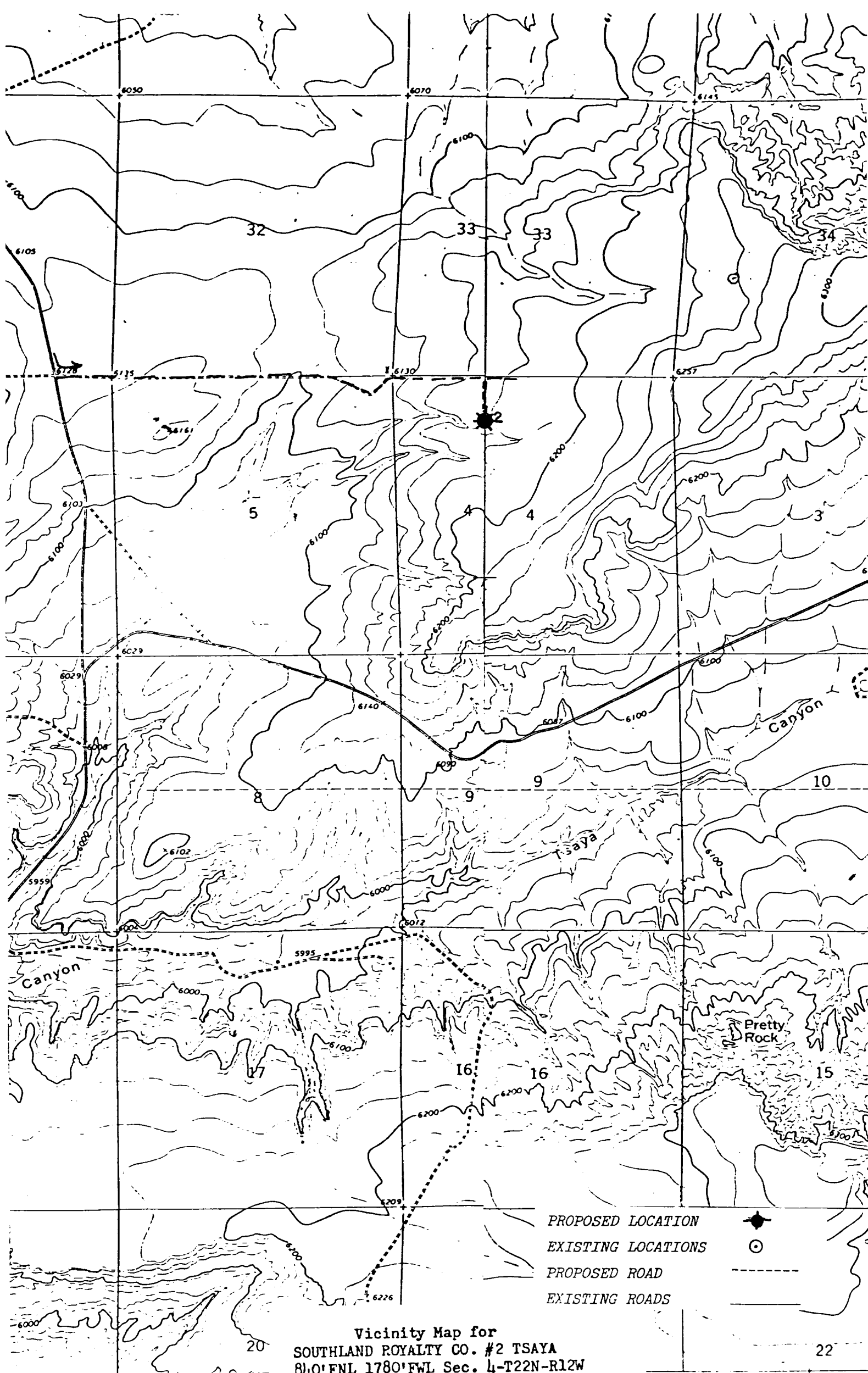
B-B' &

6180					
6170					
6160					



Vert. 1" = 40' & Horiz. 1" = 100'

&



Vicinity Map for
SOUTHLAND ROYALTY CO. #2 TSAYA
840' FNL 1780' FWL Sec. 4-T22N-R12W
SAN JUAN COUNTY, NEW MEXICO

PROPOSED LOCATION
EXISTING LOCATIONS
PROPOSED ROAD
EXISTING ROADS

mapped, edited, and published by the Geological Survey
Control by USGS and USCRS