

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

m 910' FSL & 990' FWL
At proposed prod. zone

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

14 miles SE of Ignacio, CO

15. DISTANCE FROM PROPOSED*

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

910'

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

200'

16. NO. OF ACRES IN LEASE

320.00

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

19. PROPOSED DEPTH

3775'

20. ROTARY OR CABLE TOOLS

Rotary

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

6637' GR

22. APPROX. DATE WORK WILL START*

July 15, 1980

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#	120'	85 sacks
7 7/8"	4 1/2"	10.5#	3775'	515 sacks

Surface formation is San Jose.

Top of Ojo Alamo sand is at 1596'.

Top of Pictured Cliffs sand is at 3575'.

Fresh water mud will be used to drill from surface to Total Depth.

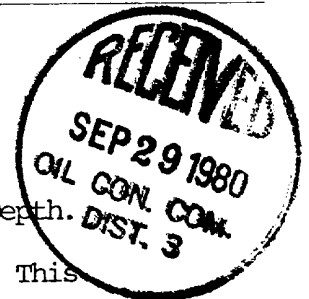
It is anticipated that an IES and a GR-Density log will be run at Total Depth.

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

It is expected that this well will be drilled before September 30, 1980. This

depends on time required for approval, rig availability and the weather.

Gas is not dedicated.

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

TITLE District Engineer

DATE 6-20-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

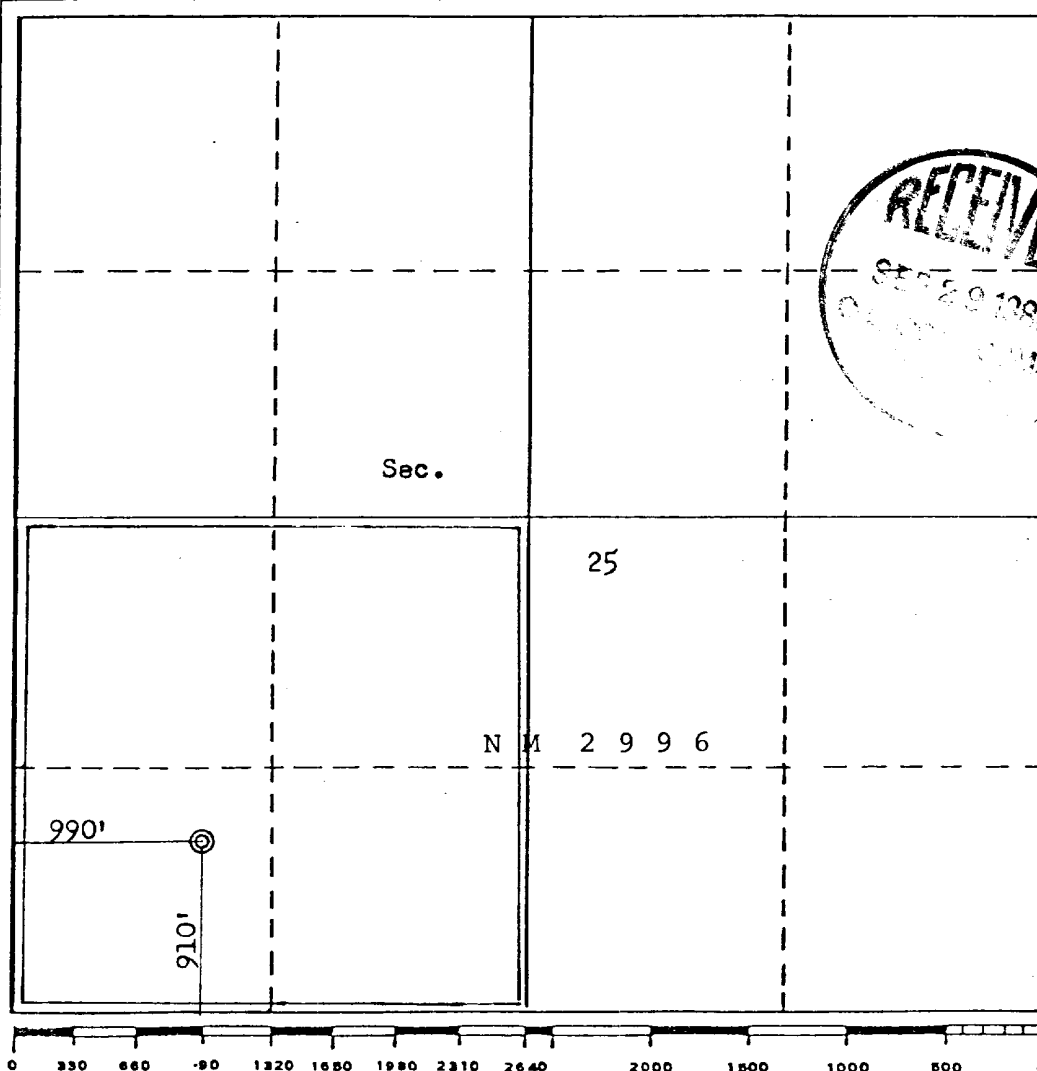
P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

Operator SOUTHLAND ROYALTY COMPANY		Lease BURNT MESA		Well No. 4	
Unit Letter M	Section 25	Township 32N	Range 7W	County San Juan	
Actual Footage Location of Well: 910 feet from the South line and 990 feet from the West line					
Ground Level Elev. 6637	Producing Formation Pictured Cliffs		Pool So. Los Pinos Fruitland		Dedicated Acreage: 160 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p>					



CERTIFICATION

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

Name
Robert E. Fielder
Position
District Engineer
Company
Southland Royalty Co.
Date
June 19, 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 20, 1980
Registered Professional Engineer
and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. **3950**

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

B U R N T M E S A # 4

910' FSL & 990' FWL
Sec. 25, T32N, R7W
San Juan County, NM

Field: So. Los Pinos Fruitland-Pictured Cliffs Elevation: 6637' GR

Geology: Formation Tops

Ojo Alamo	1596'	Pictured Cliffs	3575'
Kirtland	2861'	Total Depth	3775'
Fruitland	3184'		

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

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

Mud Program: Fresh water mud to Total Depth. Mud up as necessary to control tight hole problems.

Materials: Casing Program

<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>
12 1/4"	120'	8 5/8"	24# H-40
7 7/8"	3775'	4 1/2"	10.5# K-55

Float Equipment

8 5/8" surface casing: Pathfinder type "A" guide shoe.

4 1/2" production casing: Pathfinder type "A" guide shoe and self-fill insert flapper type float valve. Five bow type centralizers. Run float 1 joint off bottom (40' min.) Run centralizers every other joint above shoe.

Wellhead Equipment

Larkin or Rector screwed type 2000 psi casing head and tubing head.

Cementing Program:

8 5/8" surface casing: 85 sacks (100.3 cu. ft.) class B with 1/4# gel flake per sack and 3% Ca Cl. (100% excess to circulate.)

4 1/2" production casing: 465 sacks 50/50 Poz with 6% gel. Mix with 7.2 gals. water per sack to weigh 12.85 ppg. Tail in with 50 sacks class B. (747 cu. ft. - volume is 50% excess to cover Ojo Alamo.)



Southland Royalty Company

June 20, 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 Burnt Mesa #4 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 The Pine 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

Robert E. Fielder
District Engineer

REF/ke



Southland Royalty Company

June 20, 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 8" 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.

Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder
District Engineer

REF/ke



Southland Royalty Company

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

Dear Sir:

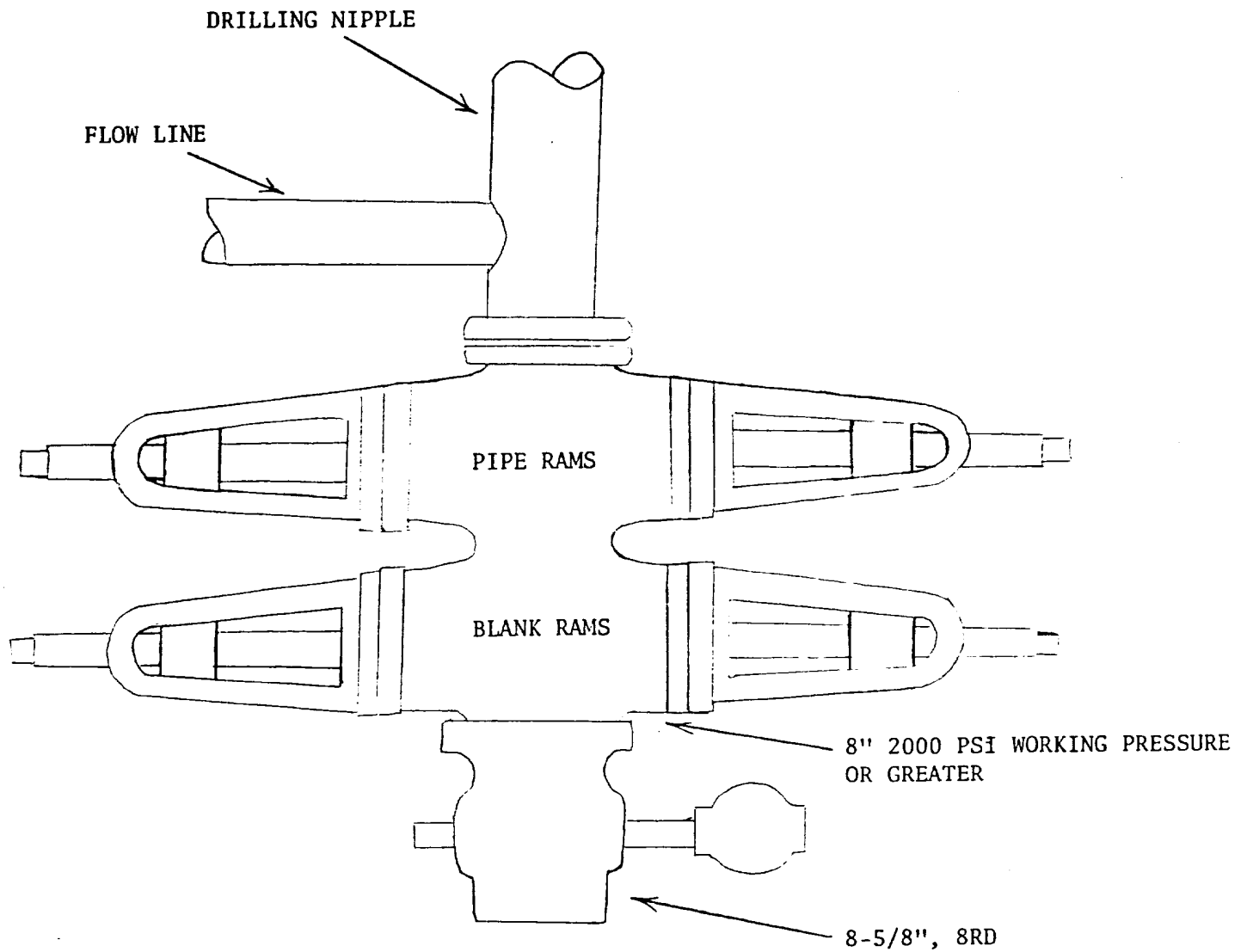
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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: 6-20-80

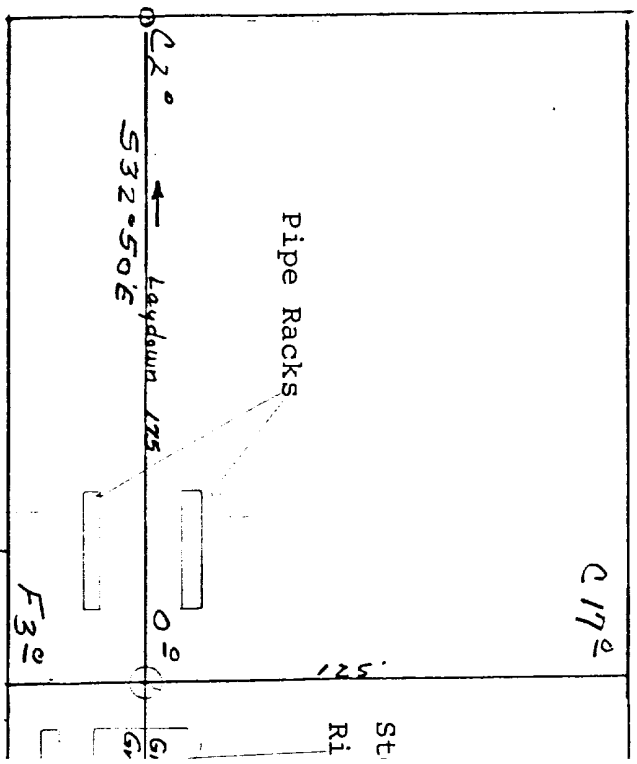
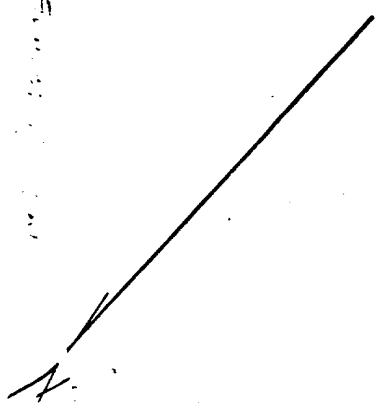
L. O. Van Ryan
District Production Manager

LOVR/ke

Southland Royalty Company
Burnt Mesa #4



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



Vert. 1"=40'

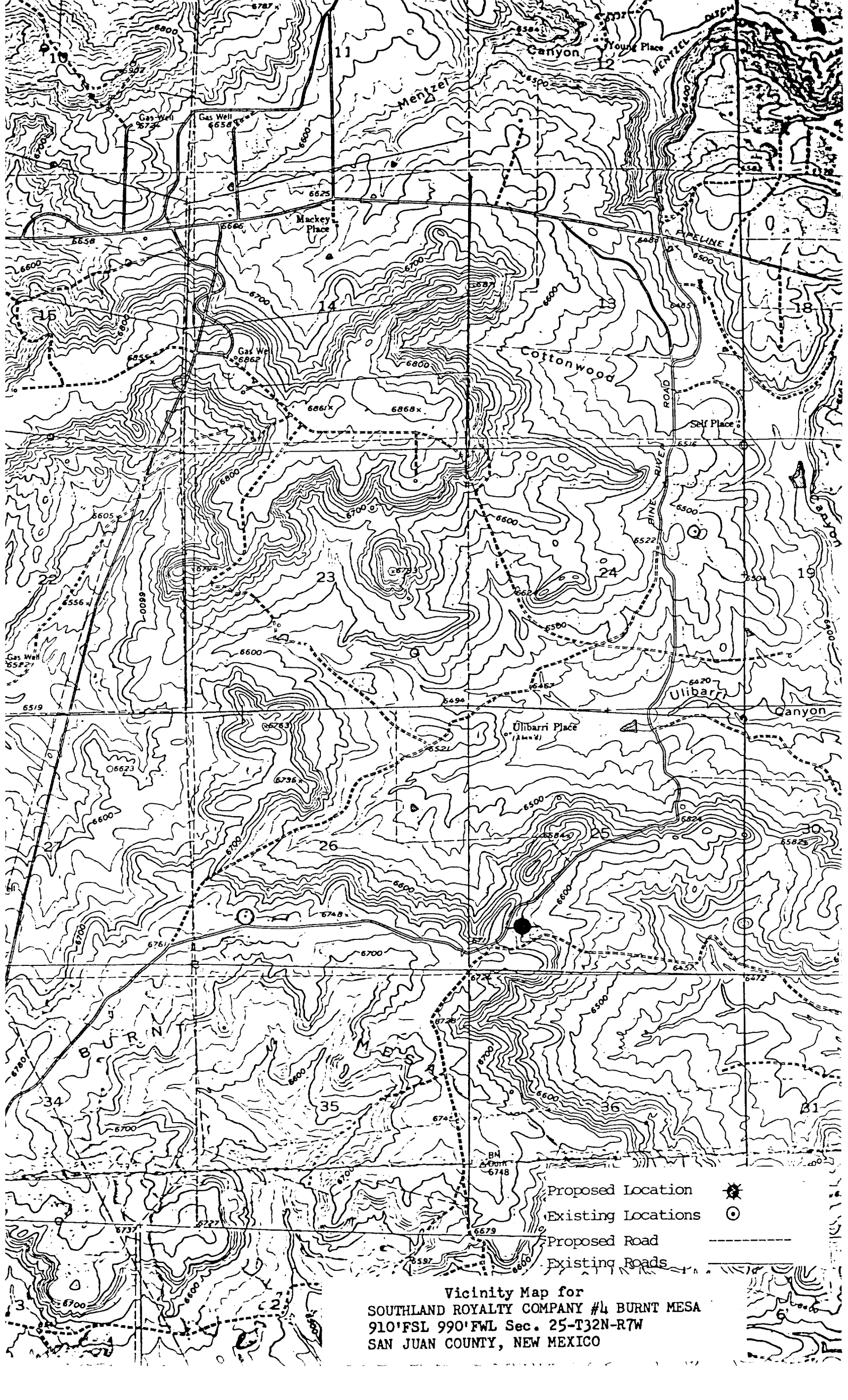
A - 1" 4'

Horiz: 1"=100'

6650					
6640					
6630					

6650					
6640					
6630					

Reserve
Pt
F 10°
x



Vicinity Map for
SOUTHLAND ROYALTY COMPANY #4 BURNT MESA
910° FSL 990° FWL Sec. 25-T32N-R7W
SAN JUAN COUNTY, NEW MEXICO