

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, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface 990' FNL & 1760' FWL

At proposed prod. zone

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

8 miles northwest of Aztec, New Mexico

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

154.42

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

19. PROPOSED DEPTH

3267'

20. ROTARY OR CABLE TOOLS

Rotary

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

6475' GR

22. APPROX. DATE WORK WILL START*

January 15, 1979

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'	99 cu. ft.
6-3/4"	2-7/8"	6.5#	3267'	514 cu. ft.

Surface formation is San Jose.

Top of Ojo Alamo sand is at 1582'.

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

It is anticipated that an IES and a Gamma Ray 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 April 15, 1979. This depends
on time required for approvals, rig availability and the weather.

Gas is dedicated.

RECEIVED
DEC 14 1978GEOLOGICAL SURVEY
U.S. DEPARTMENT OF THE INTERIORDEC 15 1978
OIL CON. COM.
DIST. 3

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 Production Manager DATE December 12, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NMOCC

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

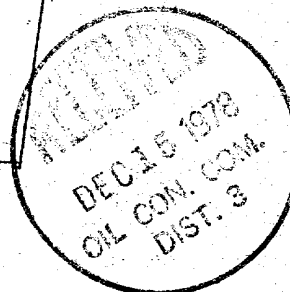
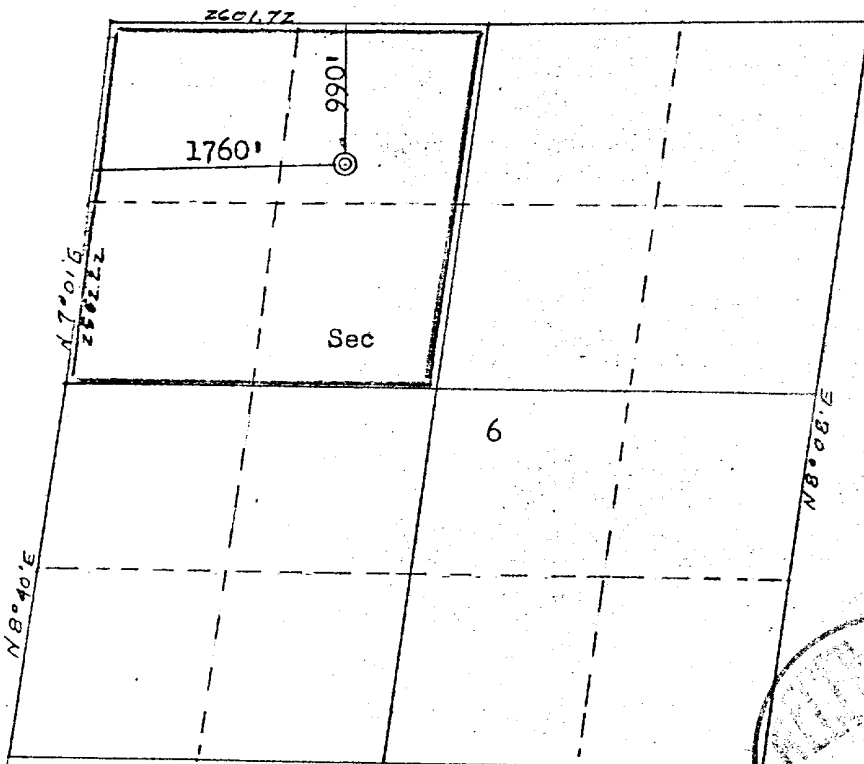
Operator SOUTHLAND ROYALTY COMPANY			Lease DUSENBERRY		Well No. 4
Unit Letter C	Section 6	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 1760 feet from the West line					
Ground Level Elev: 6475	Producing Formation Pictured Cliffs		Pool Blanco	Dedicated Acreage 154.42 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"=1320'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	<i>[Signature]</i>
Position	District Production Manager
Company	Southland Royalty Company
Date	December 12, 1978
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	November 9, 1978
Registered Professional Engineer and Land Surveyor	<i>[Signature]</i> Fred B. Kerr, Jr.
Certificate No.	11890 12.

DRILLING SCHEDULE - DUSENBERRY #4

Location: 990' FNL & 1760' FWL, Section 6, T31N, R11W
San Juan County, New Mexico

Field Blanco Pictured Cliffs

Elevation: 6475' GR

Geology: Blanco Pictured Cliffs

Formation Tops:

Ojo Alamo	1582'
Fruitland	2622'
Pictured Cliffs	3087'
Total Depth	3267'

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. & Grade</u>
	12-1/4"	120'	8-5/8"	24# K-55
	6-3/4"	3267'	2-7/8"	6.5# J-55

Cementing

8-5/8" Surface Casing: 99 cu. ft. (85 sxs) of Class "B" with 1/4# gel flake per sx and 3% CaCl₂. (100% excess)

2-7/8" Production Casing: 514 cu. ft. (305 sxs) 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sack to weigh 12.85 ppg. Tail in with 50 sxs Class "B" with 2% CaCl₂. If lost circulation occurs, add 1/4 cu. ft. fine gilsonite per sx. (50% excess to cover Ojo Alamo)



Southland Royalty Company

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

Attention: Mr. P. T. McGrath

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: December 12, 1978

Name: CC Perizon

Title: District Engineer



Southland Royalty Company

December 12, 1978

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

Attention: Mr. P. T. McGrath

Dear Sir:

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

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 the Farmer's Ditch. All water will be transported by truck and stored on location.

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

Mr. Max Larson 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

December 12, 1978

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

Attention: Mr. P. T. McGrath

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.

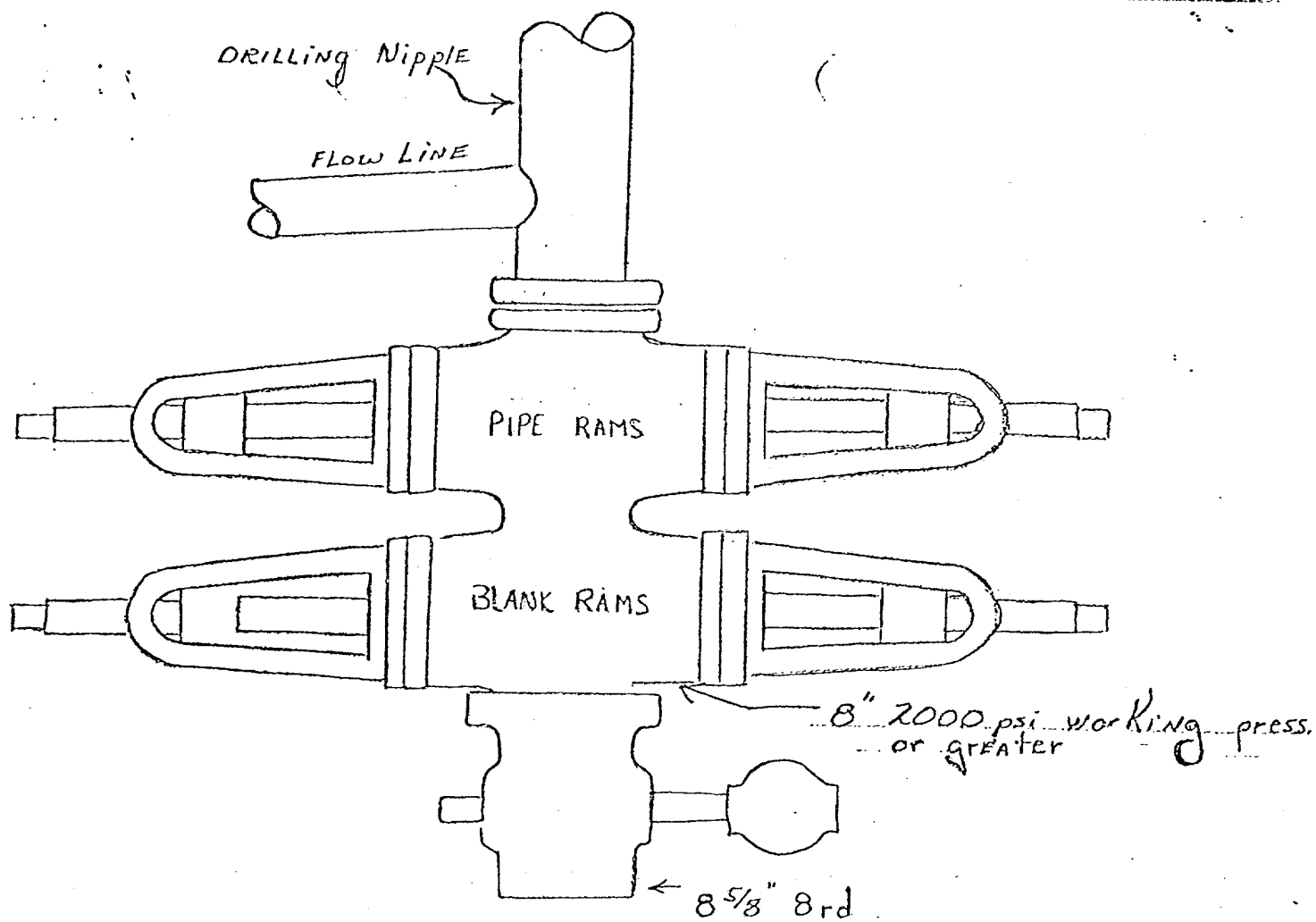
The preventer is 3000# working pressure and 6000# test.

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,

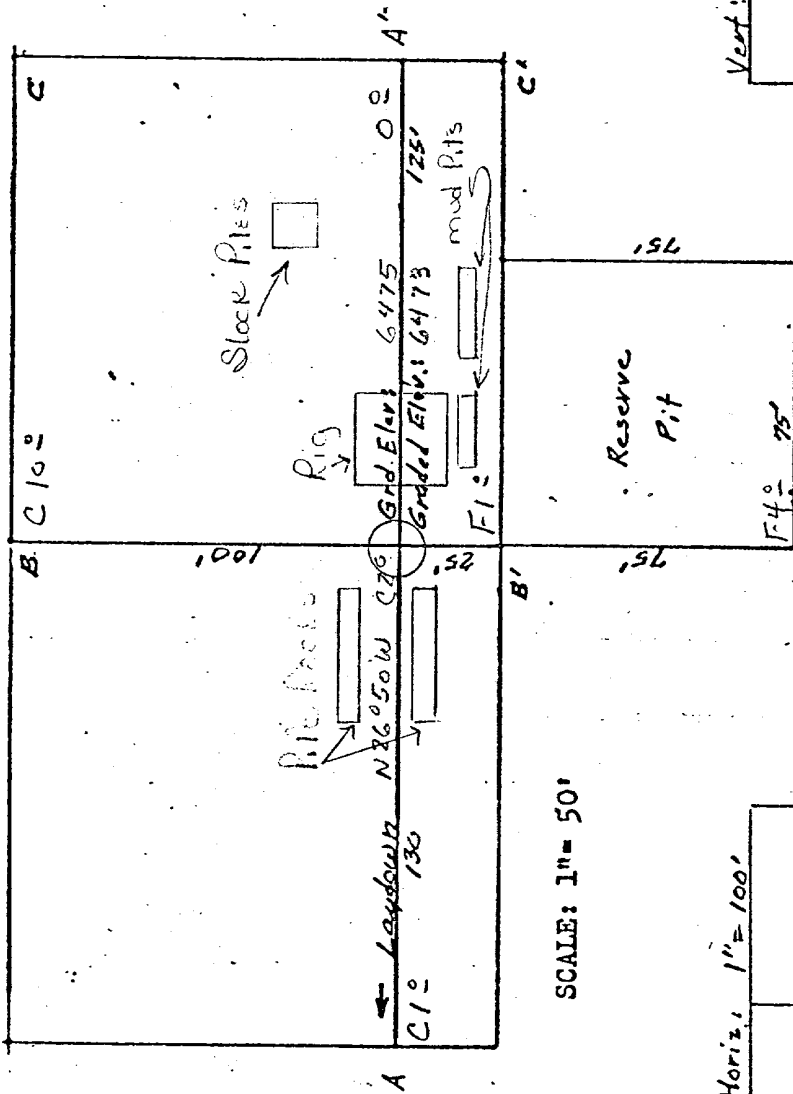
L. O. Van Ryan
District Production Manager

LOVR/dg



Preventers and spools are to have
through bore of 8" - 2000# or larger.

Location Profile for
 SOUTHLAND ROYALTY CO. #4 DUSENBERRY
 990' FNL 1760' FWL Sec 3-T31N-R11W San Juan County, New Mexico



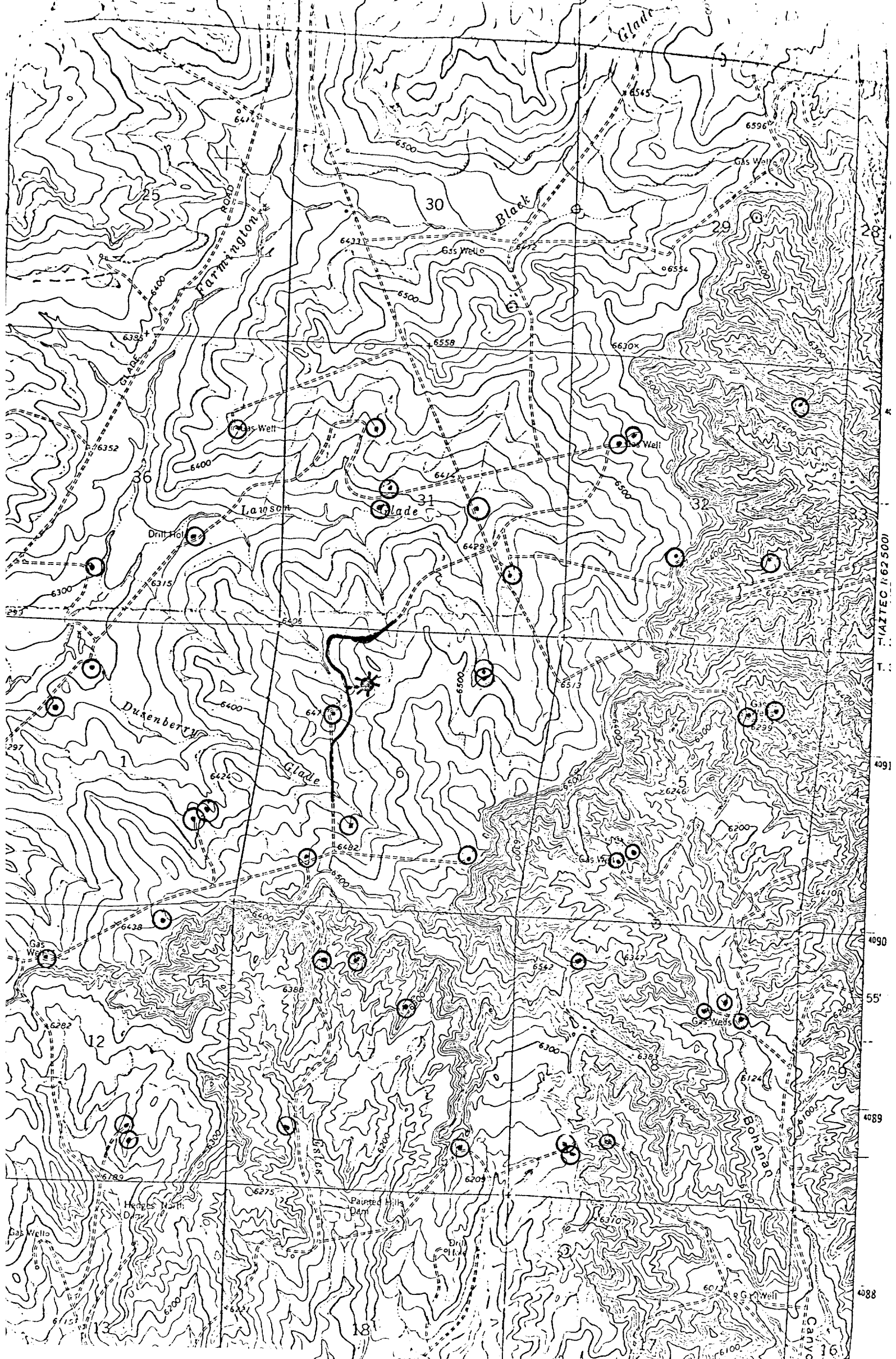
SCALE: 1" = 50'

Vert: 1"=40'	A-A'	Horiz: 1"=100'
6480		
6470		
6460		

Vert: 1"=40'	B-B'	Horiz: 1"=100'
6480		
6470		
6460		

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

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



PROPOSED LOCATION
EXISTING LOCATIONS
PROPOSED ROAD
EXISTING ROADS

Vicinity Map for
SOUTHLAND ROYALTY COMPANY #4 DUSENBERRY
990'FWL 1760'FWL Sec 6-T31N-R11W
SAN JUAN COUNTY, NEW MEXICO