

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 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 820' FNL & 810' FWL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7 miles North of Aztec, New Mexico 87410

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 ~~160~~ 153.40

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

19. PROPOSED DEPTH
3279'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6467' GR

22. APPROX. DATE WORK WILL START*
June 1, 1979

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'	100 cu. ft.
6-3/4"	2-7/8"	6.5#	3279'	513 cu. ft.

Surface formation is San Jose.
Top of Fruitland sand is at 2639'.
Top of Pictured Cliffs sand is at 3099'.
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 1, 1979. This depends on time required for approvals, 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 [Signature] TITLE District Production Manager DATE February 28, 1979
(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

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.

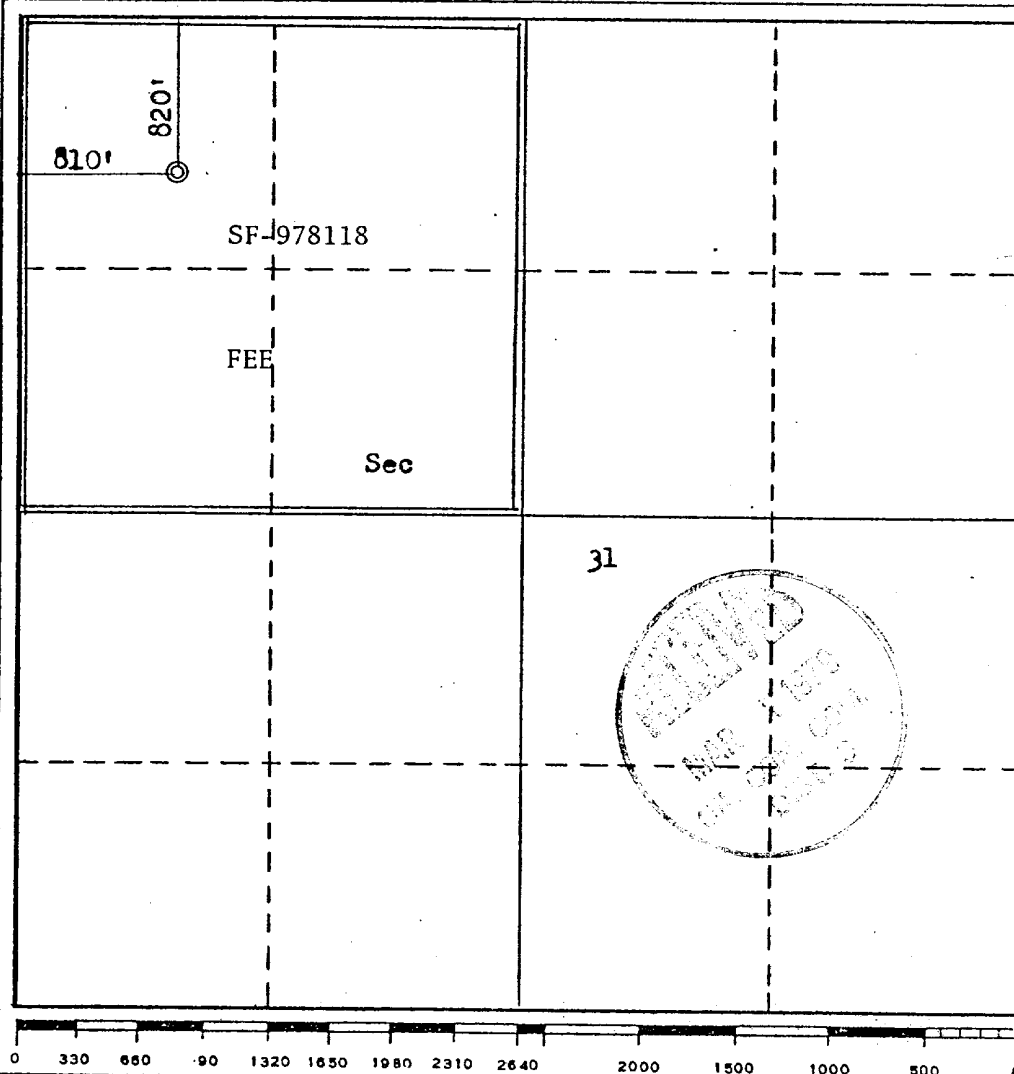
Operator SOUTHLAND ROYALTY COMPANY			Lease LAWSON		Well No. 4
Unit Letter D	Section 31	Township 32N	Range 11W	County SAN JUAN	
Actual Footage Location of Well: 820 feet from the North line and 810 feet from the West line					
Ground Level Elev. 6467	Producing Formation Pictured Cliffs		Pool Blanco	Dedicated Acreage: 160 153.40 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 Communitization Agreement
(in preparation)

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.

Name [Signature]
Position **District Production Manager**
Company **Southland Royalty Company**
Date **February 28, 1979**

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 **January 10, 1979**
Registered Professional Engineer and/or Land Surveyor
[Signature]
Fred B. Kerr Jr.

Certificate No.
3950

DRILLING SCHEDULE - LAWSON #4

Location: 820' FNL & 810' FWL, Section 31, T32N, R11W, San Juan County, New Mexico

Field Blanco Pictured Cliffs

Elevation: 6467' GR

Geology:

Formation Tops:

Ojo Alamo	1604'
Fruitland	2639'
Pictured Cliffs	3099'
Total depth	3279'

Logging Program:

IES and GR-Density at total depth.

Coring Program :

None

Natural Gauges :

None

Drilling

Contractor:

Tool Pusher:

SRC Representative:

Ross Lankford

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

Mud Program:

Fresh water mud from surface to total depth.

Materials

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade	
	12-1/4"	120'	8-5/8"	24#	K-55
	6-3/4"	3279'	2-7/8"	6.5#	K-55

Float Equipment

8-5/8" Surface Casing: Pathfinder cement guide shoe (#1003-1-010).

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 (6) 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: 100 cu. ft. (85 sxs) Class "B" with 1/4# gel flake per sx and 3% CaCl₂. (100% excess)

2-7/8" Production Casing: 513 cu. ft. (305 sxs) of 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sx 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 sack. (50% excess to cover Ojo Alamo) Displace cement with 50 gals of 7 1/2% acetic acid. Run temperature survey after 12 hours.



Southland Royalty Company

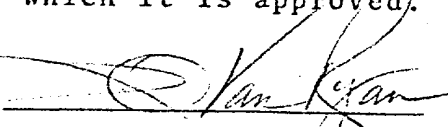
United States Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

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: February 28, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

February 28, 1979

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

Attention: Mr. P. T. McGrath

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Lawson #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 Farmer's 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,

L. O. Van Ryan
District Production Manager

LOVR/dg



Southland Royalty Company

February 28, 1979

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.

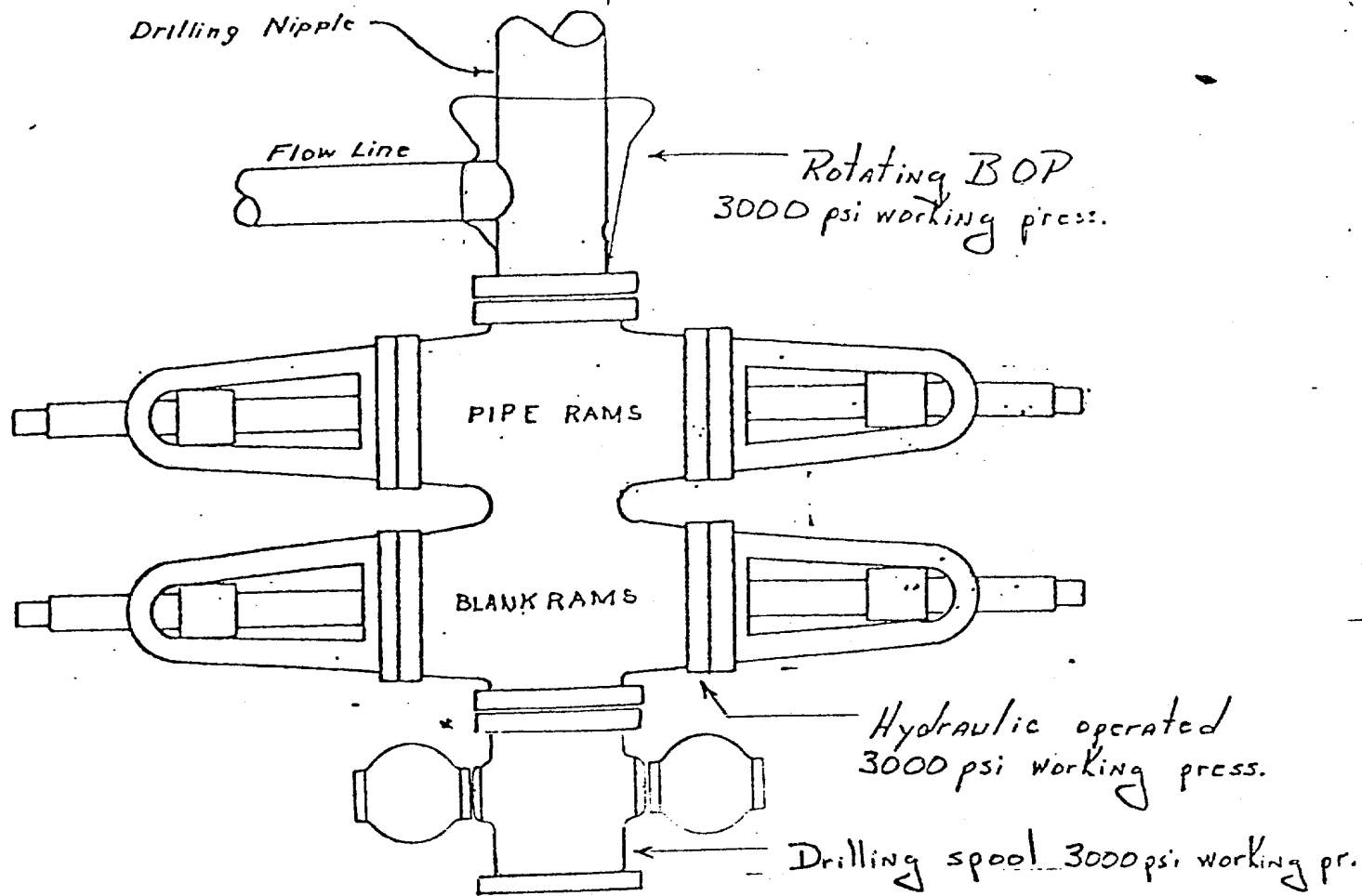
The preventer is 3000# working pressure and 6000# test.

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,

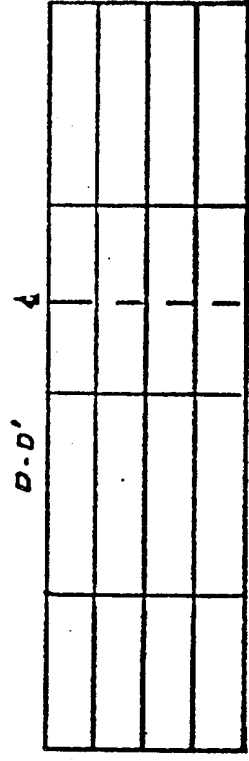
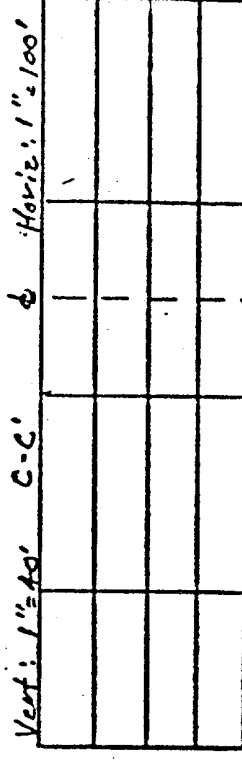
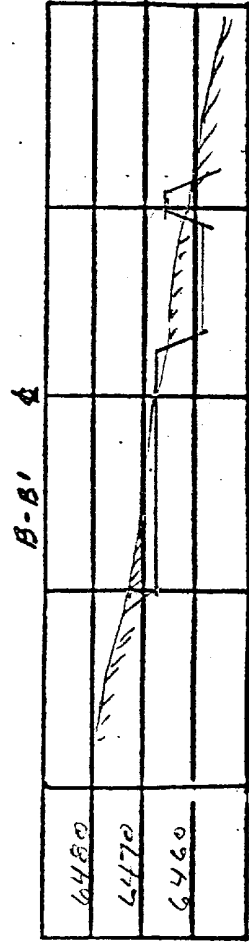
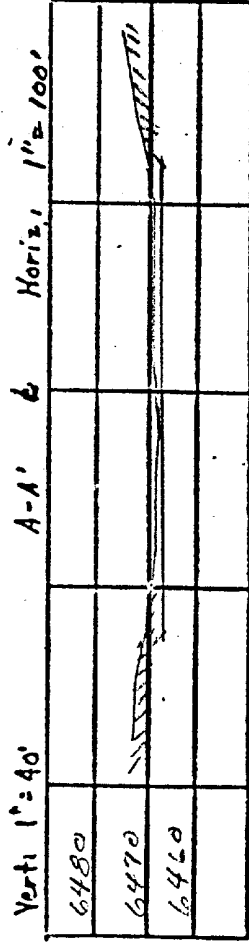
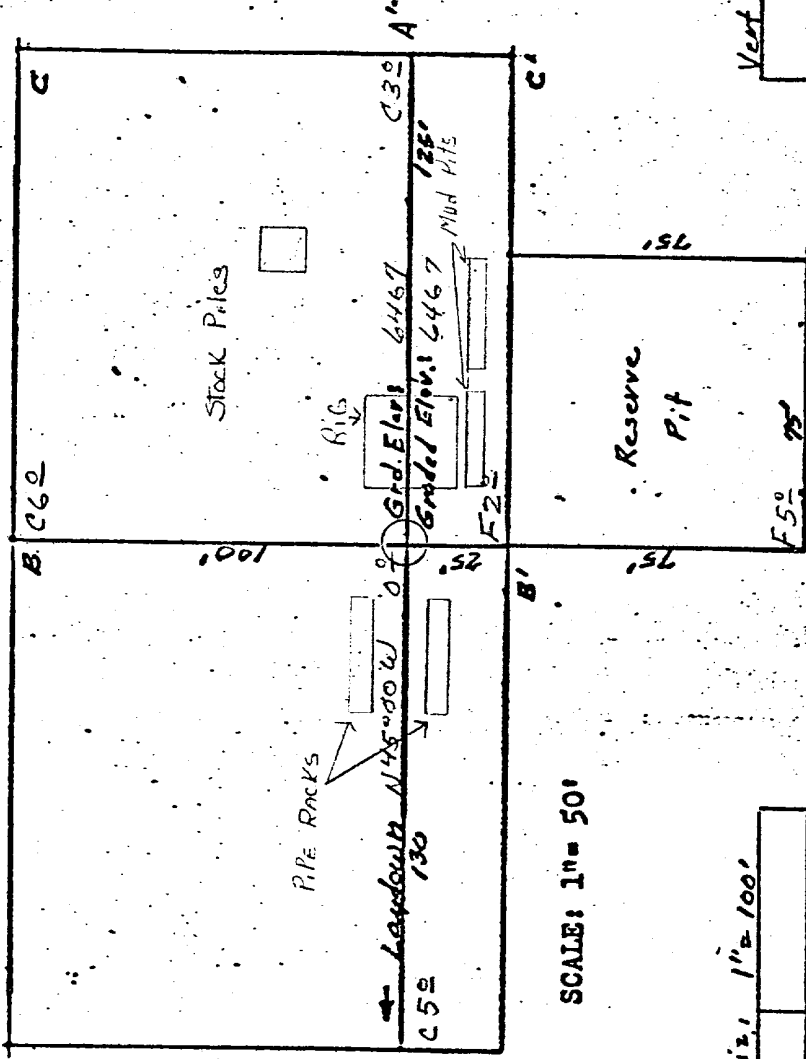
L. O. Van Ryan
District Production Manager

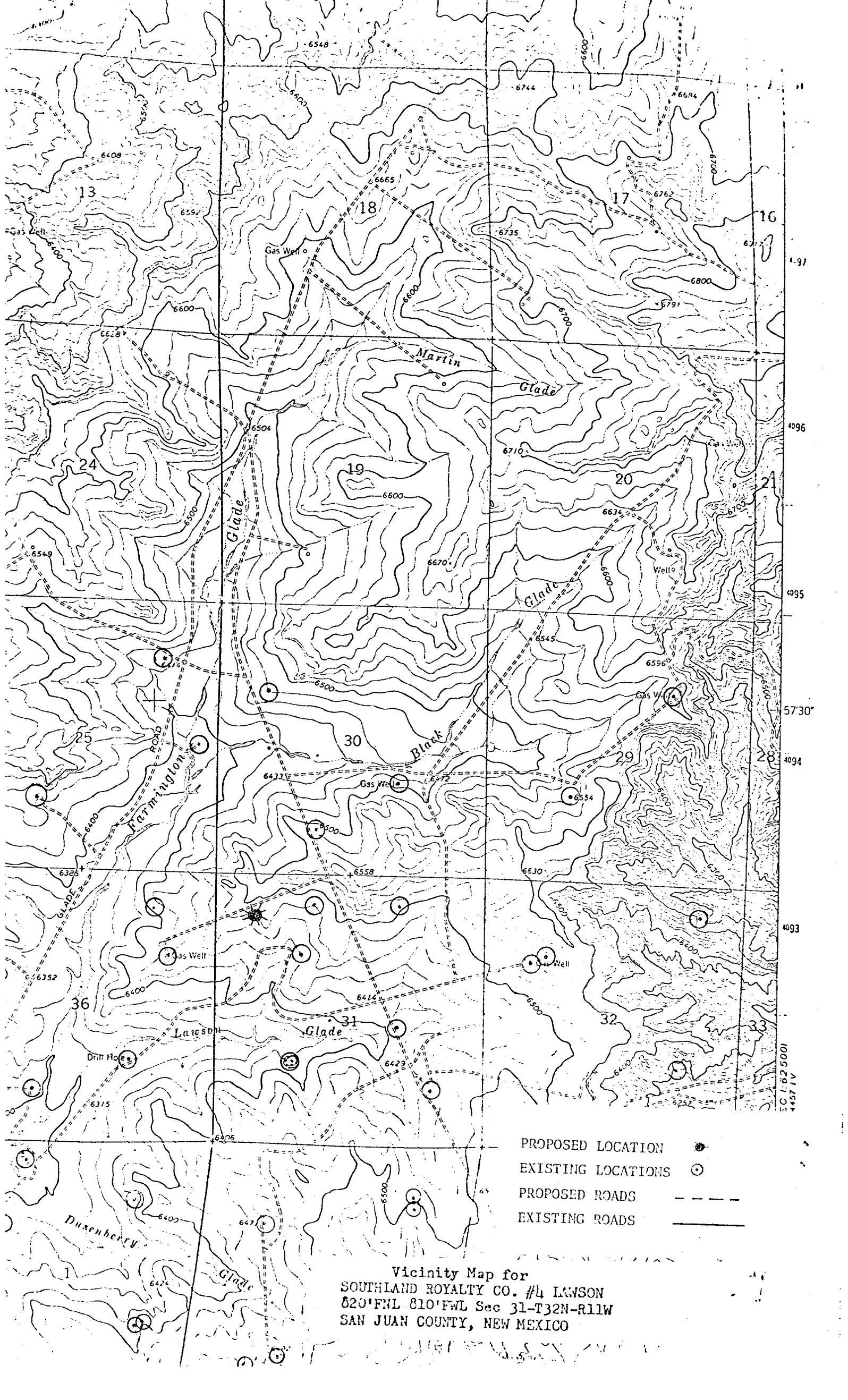
LOVR/dg



Preventers and spools are to have
through bore of 8" - 3000# PSI or larger.

Location Profile for
SOUTHLAND ROYALTY CO. #1 LAWSON
820' FNL 810' FWL Sec 31-T32N-R11W
SAN JUAN COUNTY, NEW MEXICO





Vicinity Map for
SOUTHLAND ROYALTY CO. #4 LAWSON
820'FWL 810'FWL Sec 31-T32N-R11W
SAN JUAN COUNTY, NEW MEXICO