

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

900' FSL & 1680' FWL

At proposed prod. zone

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

10 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)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.)

6198' GR

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

2928'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

April 15, 1979

5. LEASE DESIGNATION AND SERIAL NO.

SF-078115

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grenier

9. WELL NO.

#24

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

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

Section 7, T31N, R11W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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#	2928'	480 cu. ft.

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1353'.

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

It is anticipated that a GR-Density and an IES 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 July 15, 1979. This depends
on time required for approval, rig availability and the weather.

Gas is dedicated.

SW 1/4 is dedicated to this well.

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
prevention program, if any.

SIGNED

TITLE District Production Manager, DATE March 27, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

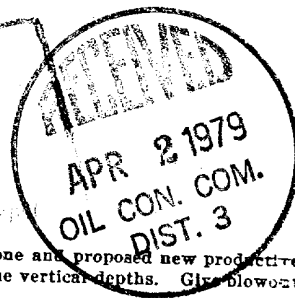
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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.

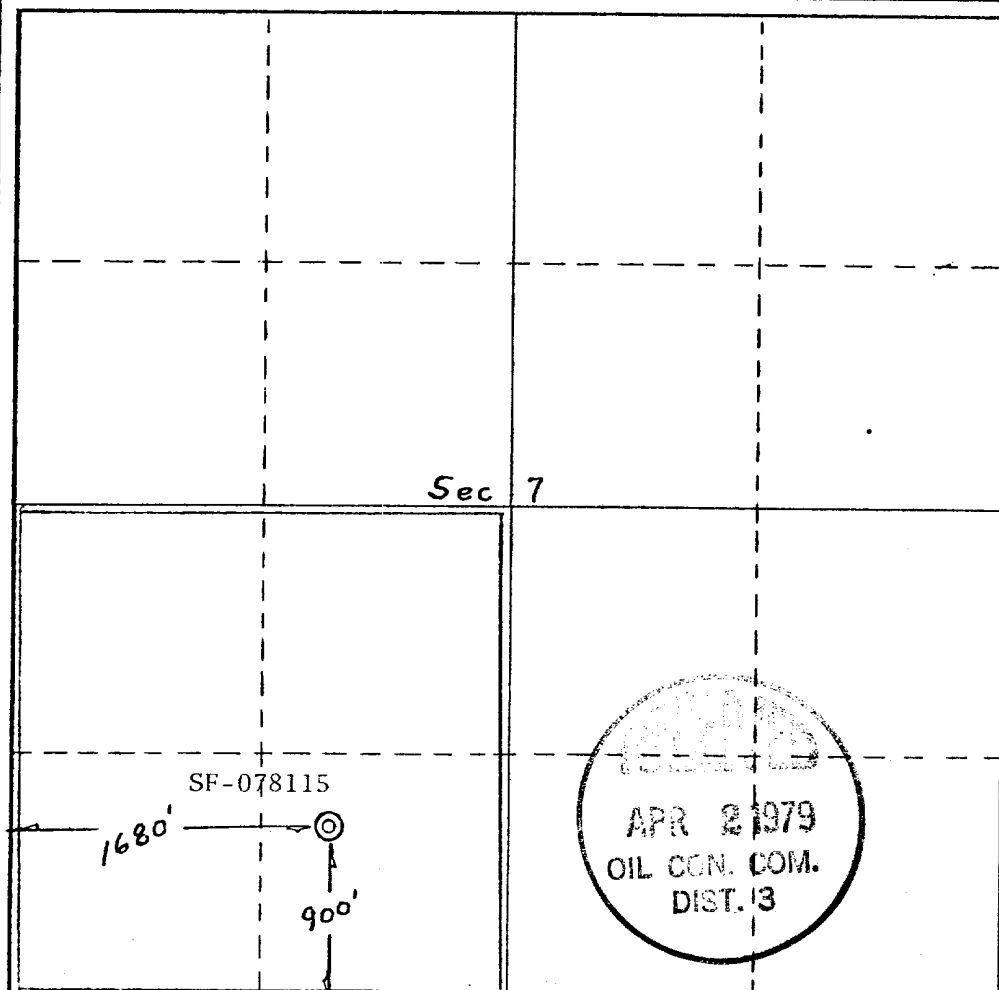
Operator <i>Southland Royalty</i> Anteo Oil & Gas Company			Lease Grenier		Well No. 24
Unit Letter N	Section 7	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 900 feet from the South line and 1680 feet from the West line					
Ground Level Elev. 6198	Producing Formation Pictured Cliffs		Pool Blanco	Dedicated Acreage: 160 159.90 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.



CERTIFICATION

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

Name *John H. Kerr*
Position **District Production Mgr.**
Company **Southland Royalty Company**
Date **March 27, 1979**

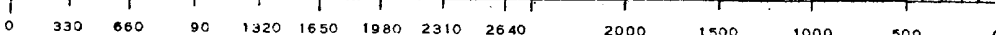
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **August 16, 1969**
Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950



DRILLING SCHEDULE - GRENIER #24

Location: 900' FSL & 1680' FWL, Section 7, T31N, R11W, San Juan County, New Mexico

Field: Blanco Pictured Cliffs

Elevation: 6198' GR

Geology: Formation Tops:

Ojo Alamo	1353'
Fruitland	2378'
Pictured Cliffs	2748'
Total depth	2928'

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:	Hole Size	Depth	Casing Size	Wt. & Grade
	12-1/4"	120'	8-5/8"	24# K-55
	6-3/4"	2928'	2-7/8"	6.5# K-55

Cementing:

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

2-7/8" Production casing: 480 cu. ft. (283 sxs) 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 sx. (50% excess to cover Ojo Alamo)

L. O. Van Ryan
District Production Manager



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: March 27, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

March 27, 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 Grenier #24 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

March 27, 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.

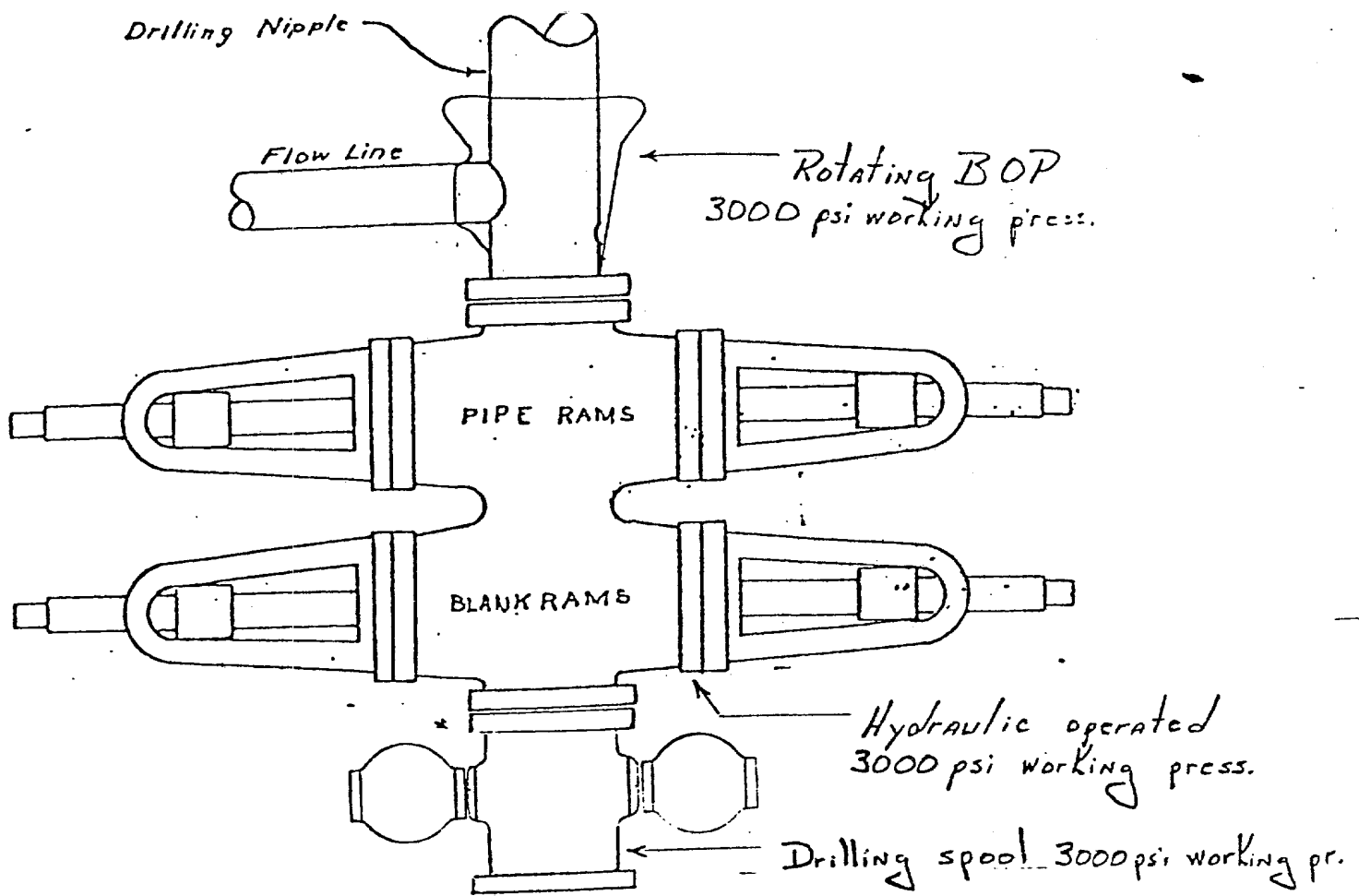
The preventer is 3000# working pressure and 6000# test.

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

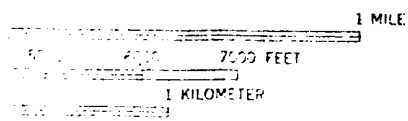


Preventers and spools are to have
through bore of 8" - 3000# PSI or larger.



R 12 W 230' AZTEC 5 MI. R 11 W. 1:260 000 FEET (COLO.)

INTERIOR-GEOLOGICAL SURVEY WASHINGTON D. C. - 1965 767000m. E.



ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt ———

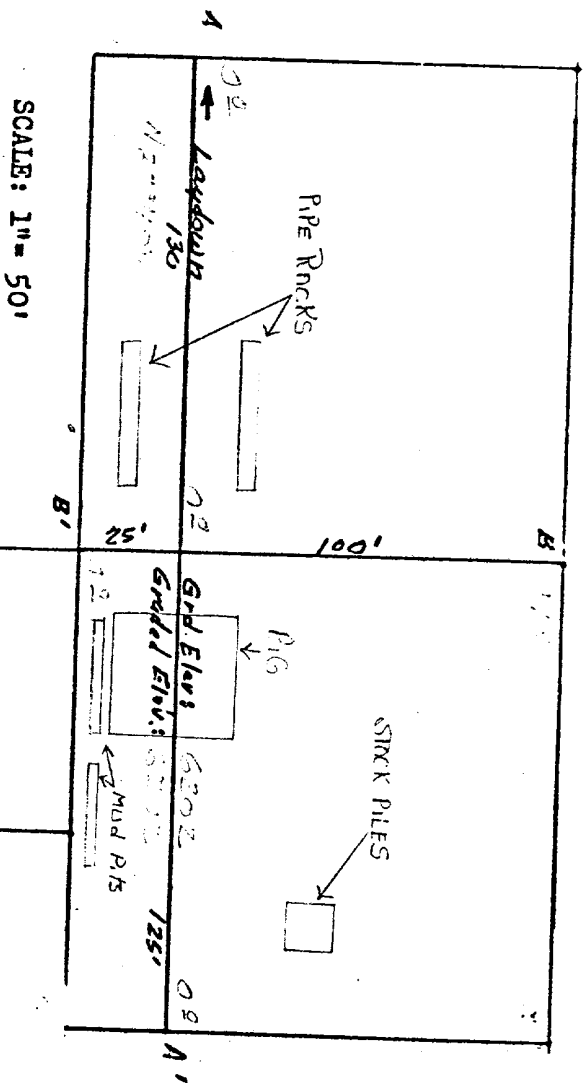
State Route



QUADRANGLE LOCATION

- EXISTING LOCATIONS
- PROPOSED LOCATION
- EXISTING ROADS
- PROPOSED ROADS

VICINITY MAP FOR
SOUTHLAND ROYALTY COMPANY
GRENIER #24
900' FSL & 1680' FEL
SECTION 7, T31N, R11W
SAN JUAN COUNTY, NEW MEXICO



Vert: 1"=40'

A-A' & Horiz: 1"=100'

B-B' &

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

D-D' &
