

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 87402-0570

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

At surface

1760' FNL & 1520' FWL

At proposed prod. zone

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

7 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)

1100'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

500'

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

6104' GL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.30#	200'	130 cu.ft. (Circ to surface)
8-3/4"	7"	23#	4878'	Stge 1: 81 cu.ft. (Cover Cliff House)
				Stge 2: 340 cu.ft. (Cover Ojo Alamo)
6-1/4"	4-1/2"	10.50#	4728'-6800'	459 cu.ft.
		11.60#	6800'-7352'	

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1060'.

Top of Pictured Cliffs sand is at 2677'.

Fresh water mud will be used to drill from surface to intermediate total depth and an
air system will be used from intermediate total depth to total depth.It is anticipated that an IEL and GR-Density will be run from intermediate total depth to
surface casing and GR-Density and GR-Induction 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 June 1, 1982.

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 R. E. Fielder TITLE District Engineer DATE January 27, 1982

(This space for Federal or State office use)

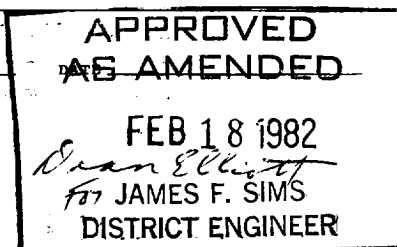
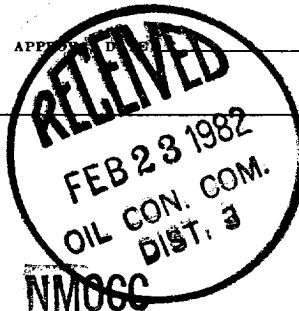
PERMIT NO. _____

APPROVED BY _____

APPROVED BY _____

TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

DRILLING OPERATIONS ARE
SUBJECT TO CONDITIONS ATTACHED
"GENERAL REQUIREMENTS"

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

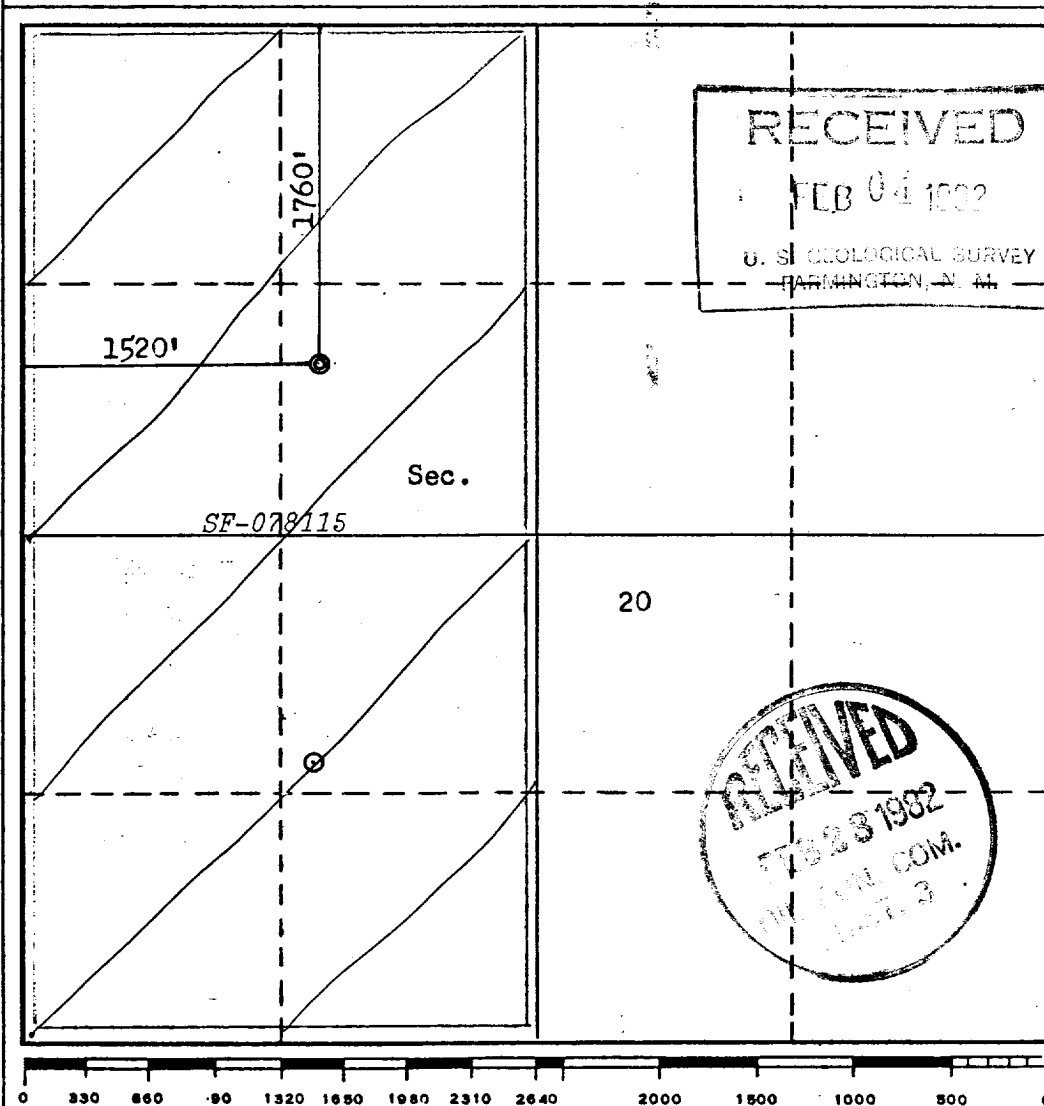
Operator SOUTHLAND ROYALTY COMPANY			Lease GRENIER			Well No. 13E		
Unit Letter F	Section 20	Township 31N	Range 11W	County San Juan				
Actual Footage Location of Well: 1760 feet from the North line and 1520 feet from the West line								
Ground Level Elev. 6104	Producing Formation Dakota		Pool Basin Dakota			Dedicated Acreage: W 320 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.

R. E. Fielder

Name

R. E. Fielder

Position

District Engineer

Company

Southland Royalty Company

Date

January 27, 1982

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 27, 1982

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

F. B. KERR, JR.

