

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-23914

## 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

1520' FNL &amp; 960' FWL

At proposed prod. zone

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

5 miles SW of Blanco, New Mexico

## 15. DISTANCE FROM PROPOSED\*

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

960'

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

1150'

## 16. NO. OF ACRES IN LEASE

2040

## 19. PROPOSED DEPTH

6488'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

W/ 320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5756' GR

## 22. APPROX. DATE WORK WILL START\*

January 1, 1980

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	200'	24#	200'	140 sacks
7 7/8"	6488'	15.5#	6488'	160 sacks (Stage One)
				175 sacks (Stage Two)
				180 sacks (Stage Three)

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 968'.

Top of Pictured Cliffs sand is at 1930'.

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

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

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

TITLE District Production Manager

DATE

10-24-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

NMOCC

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-7STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section

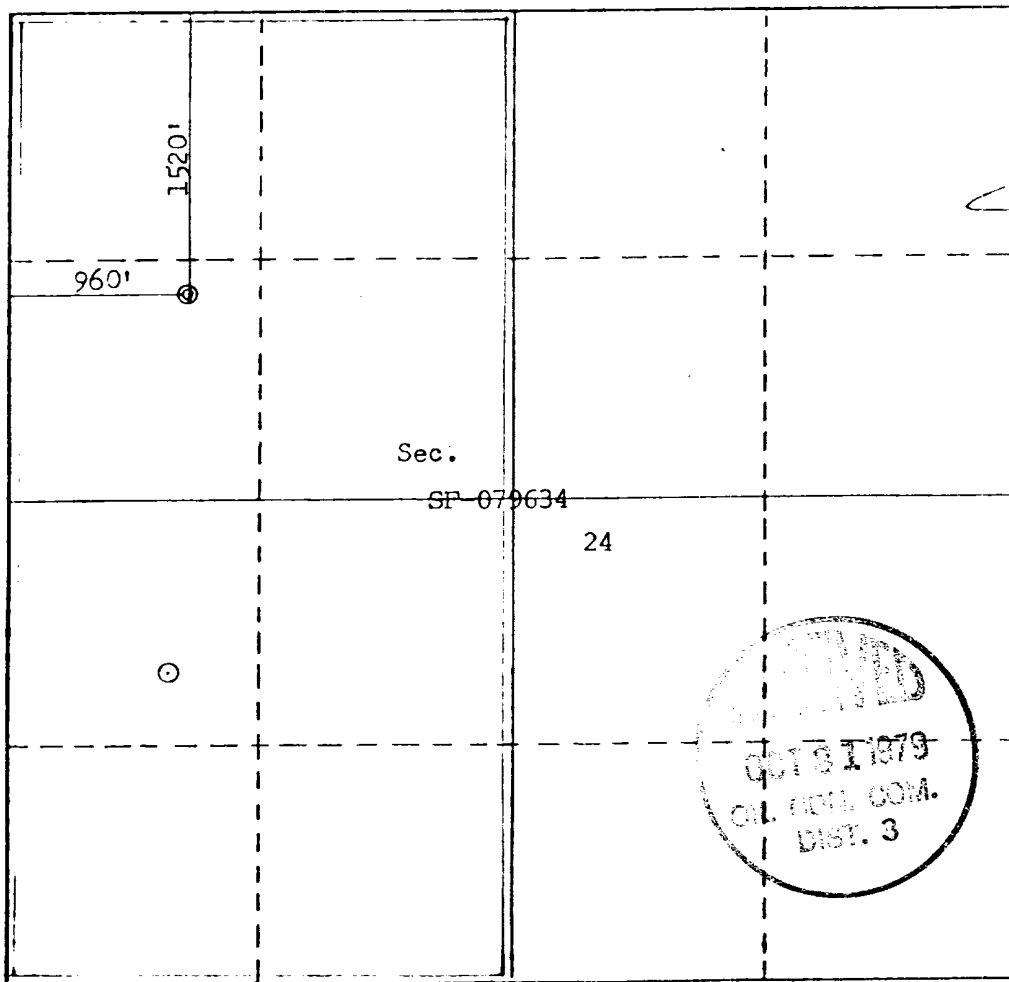
Operator • SOUTHLAND ROYALTY COMPANY			Lease McCLANAHAN		Well No. 16-E
Unit Letter E	Section 24	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 1520 feet from the North line and 960 feet from the West line					
Ground Level Elev. 5756	Producing Formation Dakota - Mesa Verde		Pool Basin - Blanco		Dedicated Acreage: 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.

Name \_\_\_\_\_  
District Production Manager  
Position \_\_\_\_\_  
Southland Royalty Company  
Company \_\_\_\_\_  
October 24, 1979  
Date \_\_\_\_\_

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 \_\_\_\_\_  
October 24, 1979  
Registered Professional Engineer and Land Surveyor  
Fred B. Kerr, Jr.  
Certificate No. 3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



**Southland Royalty Company**

October 24, 1979

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

Attention: District Engineer

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's McClanahan #16E 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 San Juan River.

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**

October 24, 1979

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

Attention: District Engineer

Re: Blowout Preventer Plan

Dear Sir:

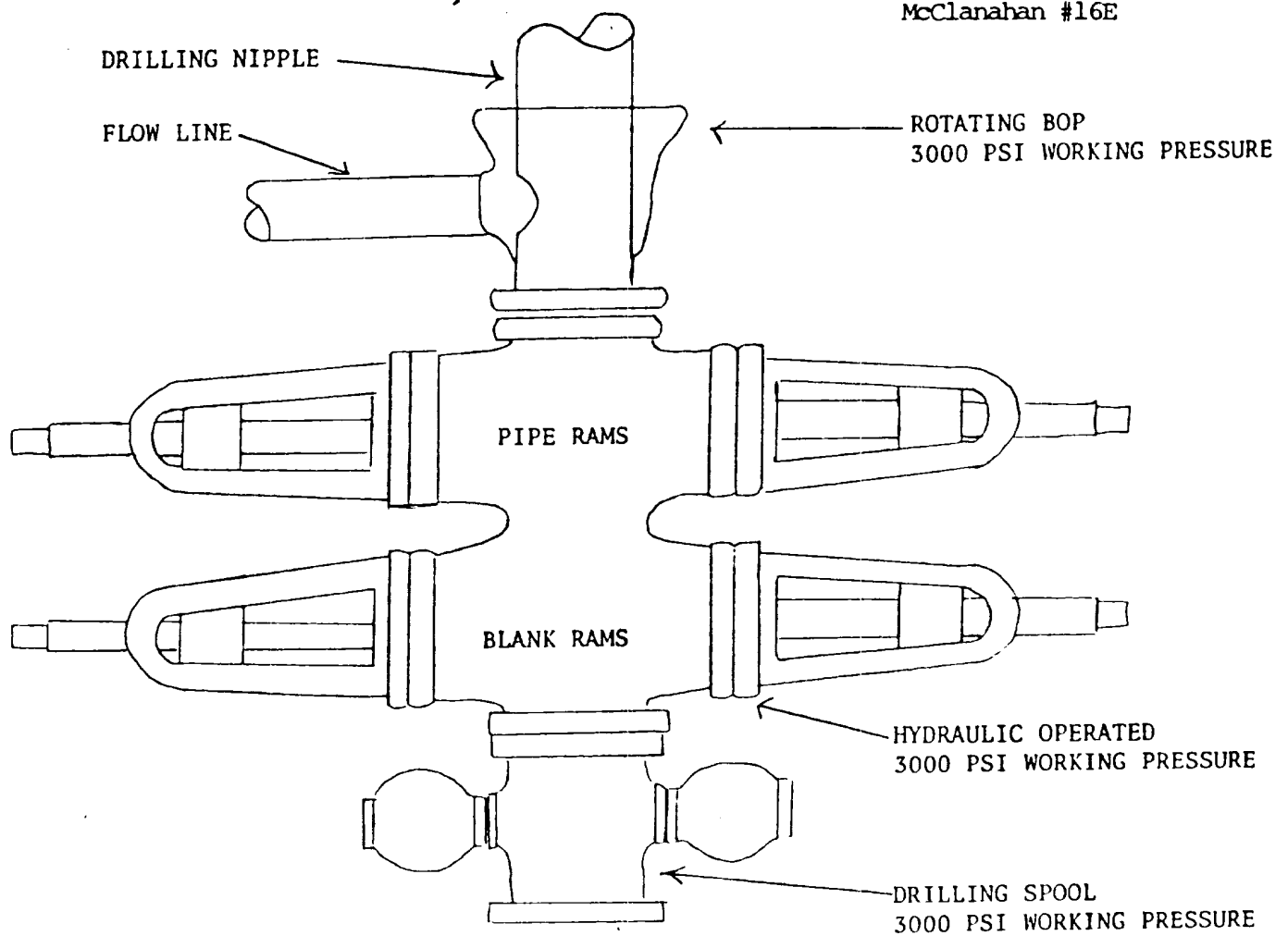
All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic closing unit with steel lines.

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



PREVENTERS AND SPOOLS ARE TO HAVE  
THROUGH BORE OF 6" - 3000 PSI OR LARGER



**Southland Royalty Company**

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

Attention: James Sims

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: October 24, 1979

Name: 

Title: District Production Manager

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

M C C L A N A H A N   # 1 6   E

1520' FWL & 960' FWL  
Section 24, T28N, R10W  
San Juan County, New Mexico

Field: Basin Dakota/Blanco Mesa Verde

Elevation: 5756' GR

Geology:

Formation Tops:	Ojo Alamo	968'	Gallup	5398'
	Fuitland	1568'	Graneros	6218'
	Pictured Cliffs	1930'	Dakota	6338'
	Cliff House	3500'	Total Depth	6488'
	Point Lookout	4173'		

Logging Program: IES and GR-Density from surface to total depth.

Coring Program: None

Natural Gauges: None

Drilling:

Contractor:

Tool Pusher:

SRC Ans Svc: 325-1841

SRC Rep:

SRC Dispatch: 325-7391

Mud Program: Fresh water from surface to 5200'.

Fresh water mud at 5200'.

Maintain mud weight of 8.9 - 9.4; Vis. of 35 - 40 sec.; Water  
Loss of 10 - 12 cc. Pretreat mud with 10% ICM at 5400' and  
maintain thru Gallup formation.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12 1/4"	200'	8 5/8"	24# H-40
	7 7/8"	6488'	5 1/2"	15.5# K-55

Float Equipment:

8 5/8" Surface Casing: Pathfinder type "A" guide shoe.

5 1/2" Production Casing: Pathfinder type "A" guide shoe. Self-fill flapper  
type float collar run 1 joint off bottom. 5 Path-  
finder bow type stabilizers (run every other joint  
above shoe). Dowell stage tools at 4500' and 2010'  
with 1 cement basket below and 5 Pathfinder rigid  
stabilizers above each tool.

Wellhead Equipment:

8 5/8" x 10", 2000# braden head with 5 1/2" casing hanger.

10", 2000# x 6", 2000# tubing head and tree.

Cementing:

8 5/8" Surface Casing: 140 sacks (165 cu.ft.) of Class "B" with 1/4# gel flake per sack and 3%  $\text{CaCl}_2$ . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

5 1/2" Production Casing: STAGE ONE - 160 sacks (236 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 25% excess to cover top of Gallup.)

STAGE TWO - 175 sacks (260 cu. ft.) of 50/50 Poz with 6% gel followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 50% excess to cover top of Cliff House.)

STAGE THREE - 180 sacks (271 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

---

L. O. Van Ryan  
District Production Manager

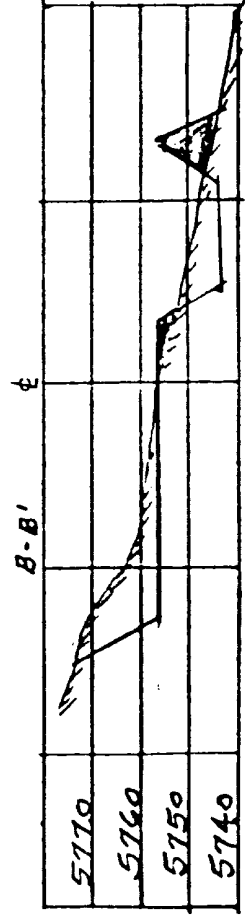
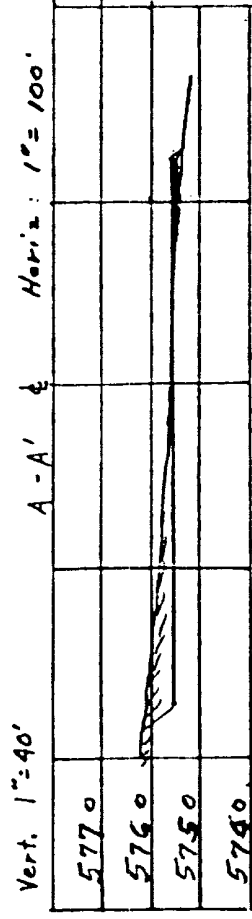
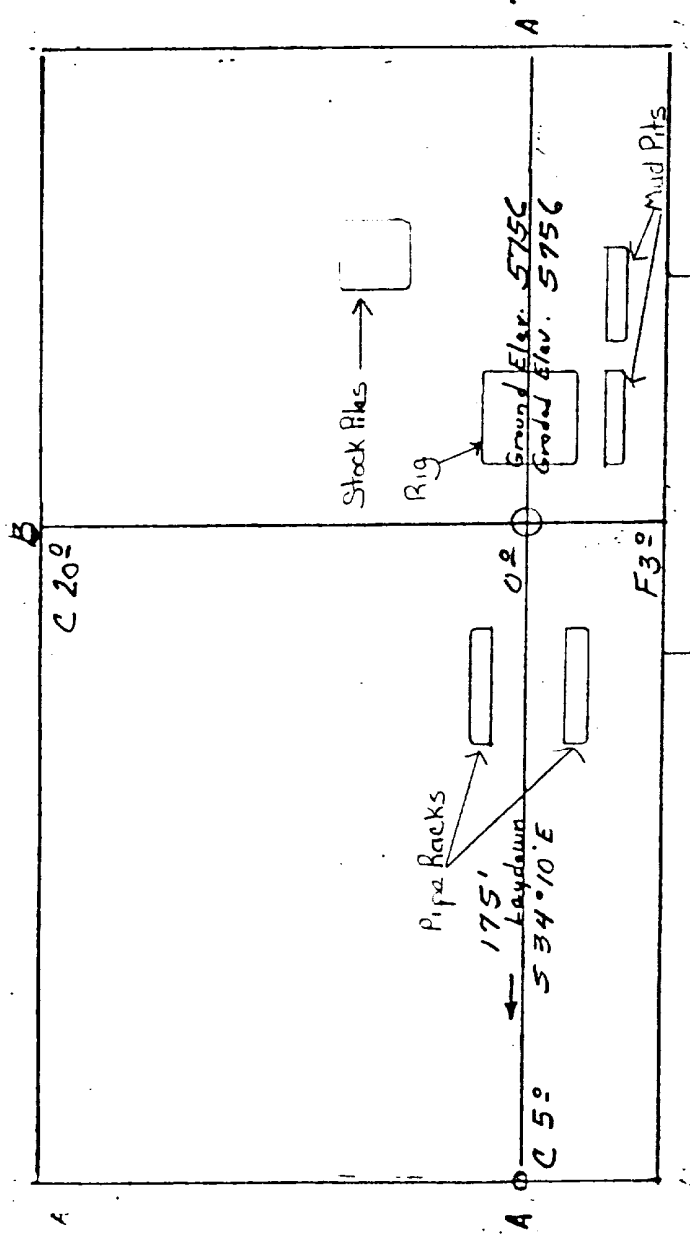
BJM/ke



## LOCATION PROFILE FOR

SOUTHLAND ROYALTY CO. #16E McCLANAHAN

1520'FNL 960'FWL Sec 24-T28N-R10W-----SAN JUAN COUNTY, NEW MEXICO

[illegible][illegible]

KERR LAND SURVEYING

