

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, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surface800' FSL & 1530' FEL  
At proposed prod. zone

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

Approximately 7 miles southeast of Bloomfield, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

570'

(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.

600'

## 16. NO. OF ACRES IN LEASE

2108.35

## 19. PROPOSED DEPTH

6681'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320 5/317 + 157

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6118' GR

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

August 31, 1980

## 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#	200'	140 sacks
7 7/8"	5 1/2"	15.5#	6681'	179 sacks (stage one)
				312 sacks (stage two)
				258 sacks (stage three)

Surface formation is Nacimiento.

Top of the Ojo Alamo sand is at 658'.

Top of the Pictured Cliffs sand is at 2005'.

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

It is anticipated that an IES and 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 December 1, 1980. This depends

on time required for approval, rig availability and the weather.

Gas is dedicated.

RECEIVED

JUN 1 3 1980

RECEIVED

JUL 30 1980

OIL CON. COM.  
DIST. 3

4-18-80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to drill or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*Curtis C. Parsons*

TITLE District Engineer

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*ok 3/80*APPROVED  
AS AMENDED  
DATE

JUL 2 1980

*James F. Sims*  
JAMES F. SIMS  
DISTRICT ENGINEER

All distances must be from the outer boundaries of the Section

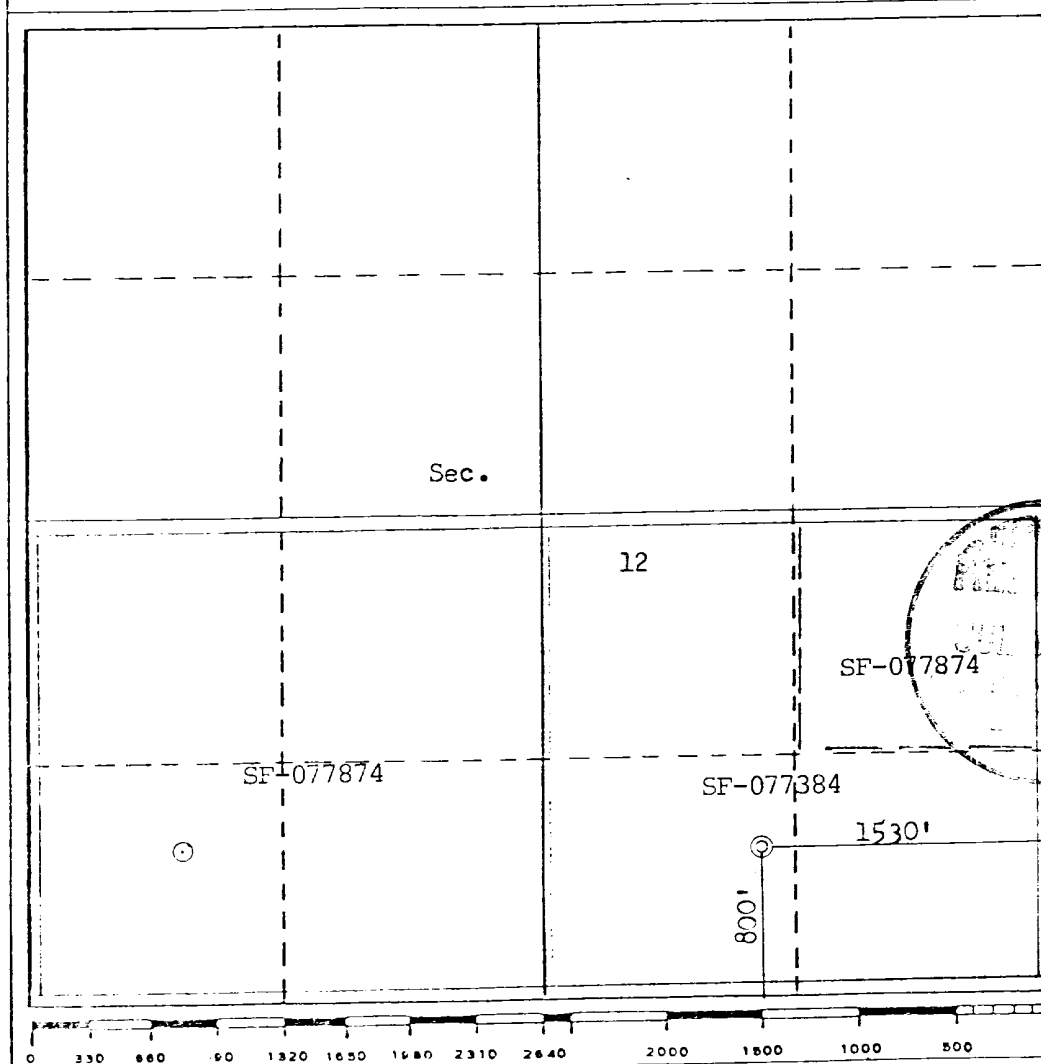
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>HANKS</b>		Well No. <b>14-E</b>
Unit Letter <b>0</b>	Section <b>12</b>	Township <b>27N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>800</b> feet from the <b>South</b> line and <b>1530</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6118</b>	Producing Formation <b>Dakota/Pictured Cliffs</b>		Pool <b>Basin/Fulcher Kutz</b>		Dedicated Acreage: <b>5/317 + 157</b> <del>320 - 160</del> 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 Communitized

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  
**Curtis C. Parsons**  
Position  
**District Engineer**  
Company  
**Southland Royalty Company**  
Date  
**April 18, 1980**

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  
**February 27, 1980**  
Registered Professional Engineer and/or Land Surveyor  
**Fred B. Kerr Jr.**  
Certificate No.  
**3950**

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

HANKS #14E  
800' FSL & 1530' FEL  
Section 12, T27N, R10W  
San Juan County, NM

Field: Basin Dakota / Elevation: 6118' GR  
Fulcher Kutz Pictured Cliffs

Geology:

Formation Tops:	Ojo Alamo	658'	Gallup	5520'
	Fruitland	1829'	Greenhorn	6314'
	Pictured Cliffs	2005'	Graneros	6401'
	Chacra	2925'	Dakota	6491'
	Cliff House	3565'	Total Depth	6681'

Logging Program: IES and GR-Density at Total Depth.

Drilling:

Contractor:

Tool Pusher:

SRC Representative:

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

Mud Program: Use fresh water mud to drill from surface to Total Depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12 1/4"	200'	8 5/8"	24# K-55
	7 7/8"	6681'	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 one joint above shoe. Five Pathfinder bow-type centralizers (run every other joint above shoe). Run Dowell stage tools at 2125' and 4700' with one cement basket below and five centralizers above each tool.

Wellhead Equipment: 8 5/8" X 10" 2000 psi casing head with 5 1/2" slips  
10" 2000 X 6" 2000 tubing head with 2 3/8", EUE hanger

\* NOTE: DO NOT SHIP CASING UNTIL LOGS HAVE BEEN REVIEWED BY CURT PARSONS  
OR LARRY VAN RYAN.

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 for 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

5 1/2" Production Casing: Stage One  
129 sacks (192 cu. ft.) of 50/50 Poz with 6% gel and 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  
312 sacks (461 cu. ft.) of 50/50 Poz with 6% gel.  
(Volume is 50% excess to cover top of the Chacra.)

Stage Three  
258 sacks (381 cu. ft.) of 50/50 Poz with 6% gel.  
(Volume is 50% excess to cover top of the Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

---

L. O. Van Ryan  
District Production Manager



**Southland Royalty Company**

April 18, 1980

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Hanks #14E 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.

There will be no camps or airstrips.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

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,

*Curtis C. Parsons*  
Curtis C. Parsons  
District Engineer

CCP/ke



**Southland Royalty Company**

April 18, 1980

United States Geological Survey  
Mr. James Sims  
P. O. Box 959  
Farmington, NM 87401

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.

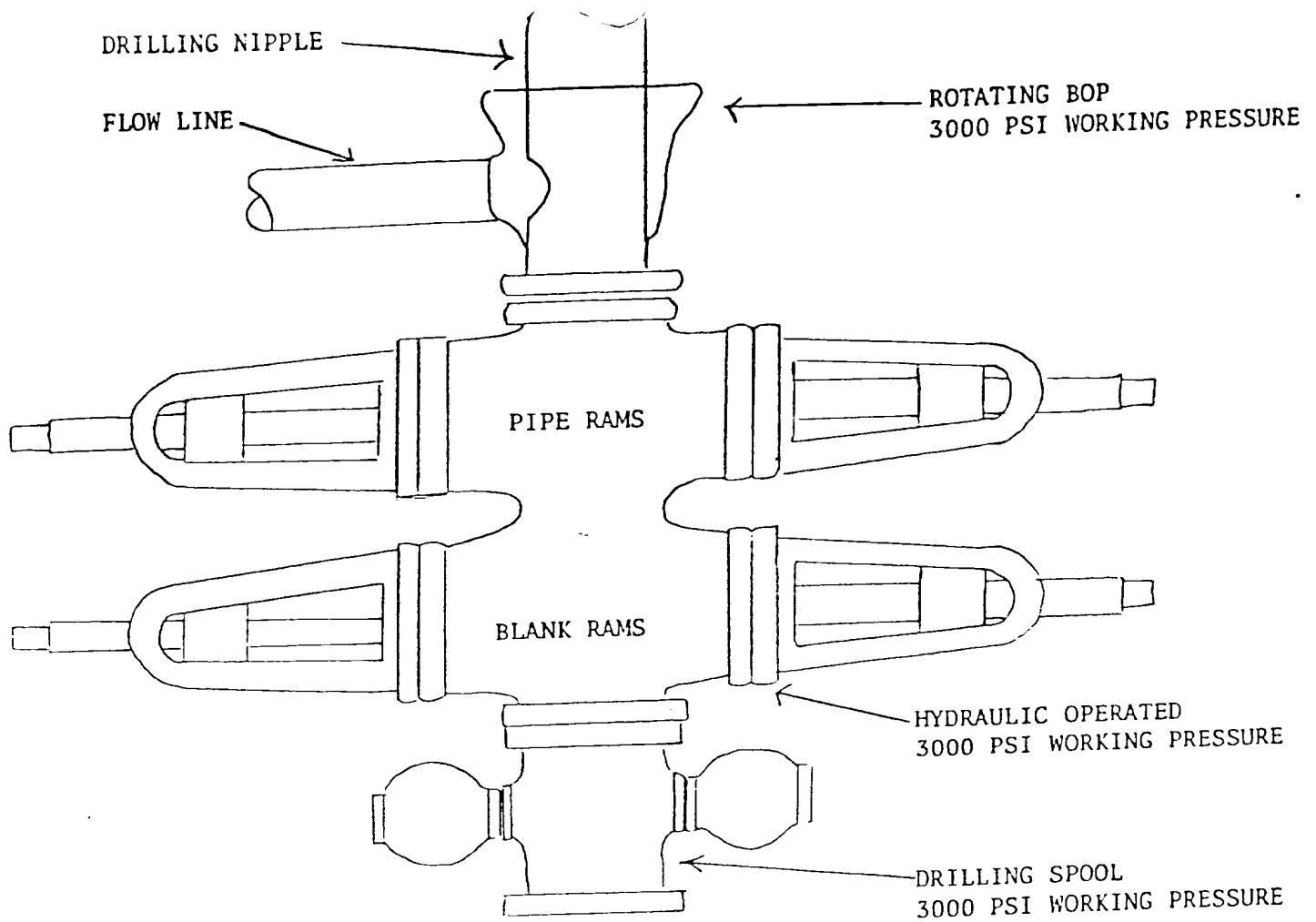
The preventer is 3000# working pressure and 6000# test pressure.

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,

*Curtis C. Parsons*  
Curtis C. Parsons  
District Engineer

CCP/ke



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

Southland Royalty Company  
Hanks #14E  
800' FSL & 1530' FEL. Sec. 12, T27N, R10W  
San Juan County, New Mexico



**Southland Royalty Company**

April 18, 1980

United States Geological Survey  
Mr. James Sims  
P. O. Box 595  
Farmington, NM 87401

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 will 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.

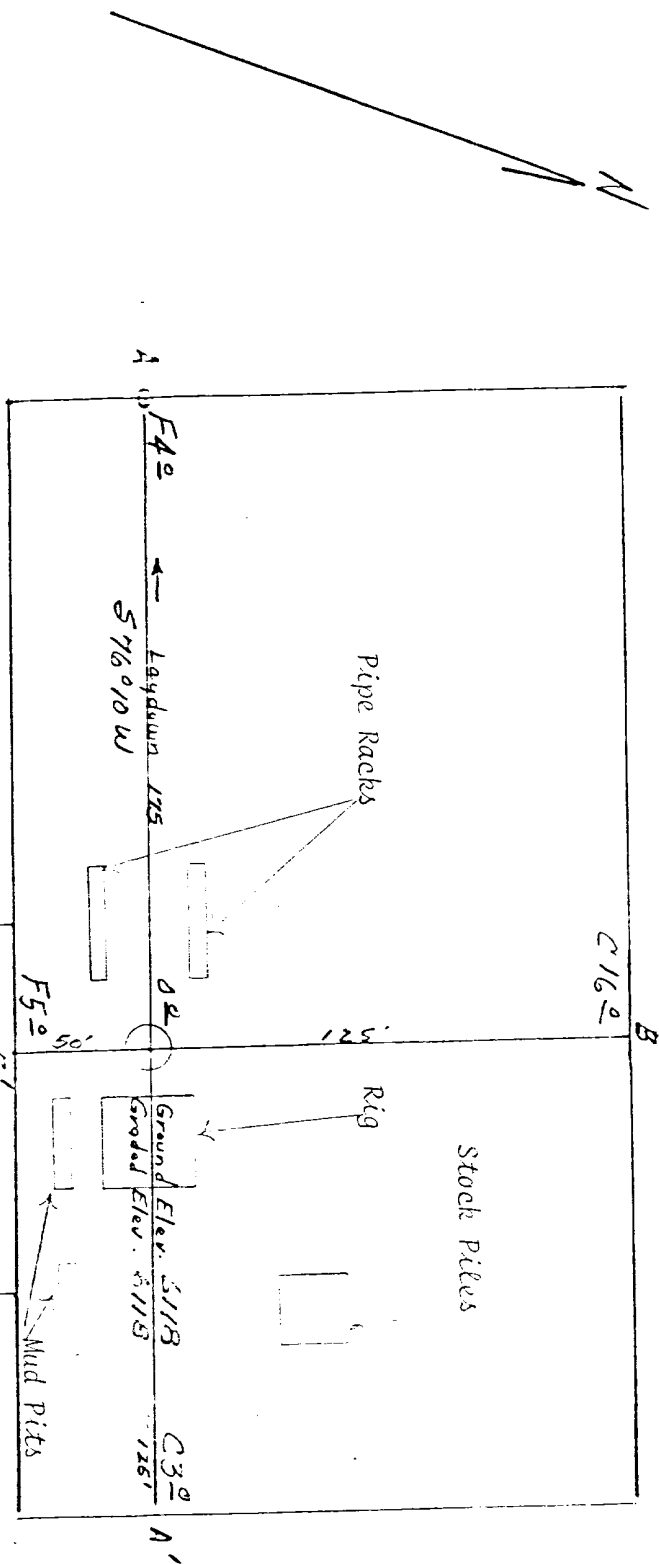
Date:

L. O. Van Ryan  
District Production Manager

LOVR/ke



Location Profile for  
 SOUTHLAND ROYALTY COMPANY 14-E HANKS  
 800' FSL 1530' FEL Sec. 12-T27N-R10W San Juan County, New Mexico



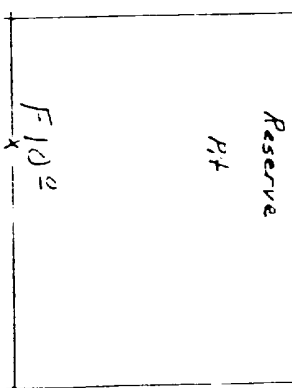
Scale: 1" = 50'

Vert. 1" = 40'      A-A'      Horiz. 1" = 100'

6130			
6120			
6110			
6100			

B-B'      Horiz. 1" = 100'

6130			
6120			
6110			
6100			



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


D-D'      Horiz. 1" = 100'


KERR LAND SURVEYING  
 Date: 2/27/2000

