

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 surface  
2010' FNL & 1120' FEL

At proposed prod. zone

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

Approximately 33 miles E of Bloomfield, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) 630'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. 600'

## 16. NO. OF ACRES IN LEASE

322.08

## 19. PROPOSED DEPTH

3435'

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

6343' GR

## 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"	24.0#	300'	210 sx (Circ. to surface)
7 7/8"	4 1/2"	10.5#	3435'	260 sx (Cover Ojo Alamo)

This action is  
appealable

Surface formation is San Jose.

Top of Ojo Alamo sand is at 2355'.

Top of Pictured Cliffs sand is at 3145'.

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 December 31, 1980.

This depends on time required for approval, 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. F. J. J.*

TITLE

District Engineer

DATE

10-8-80

(This space for Federal or State office use)

PERMIT NO.

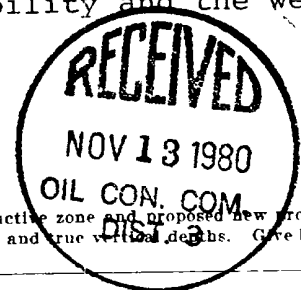
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



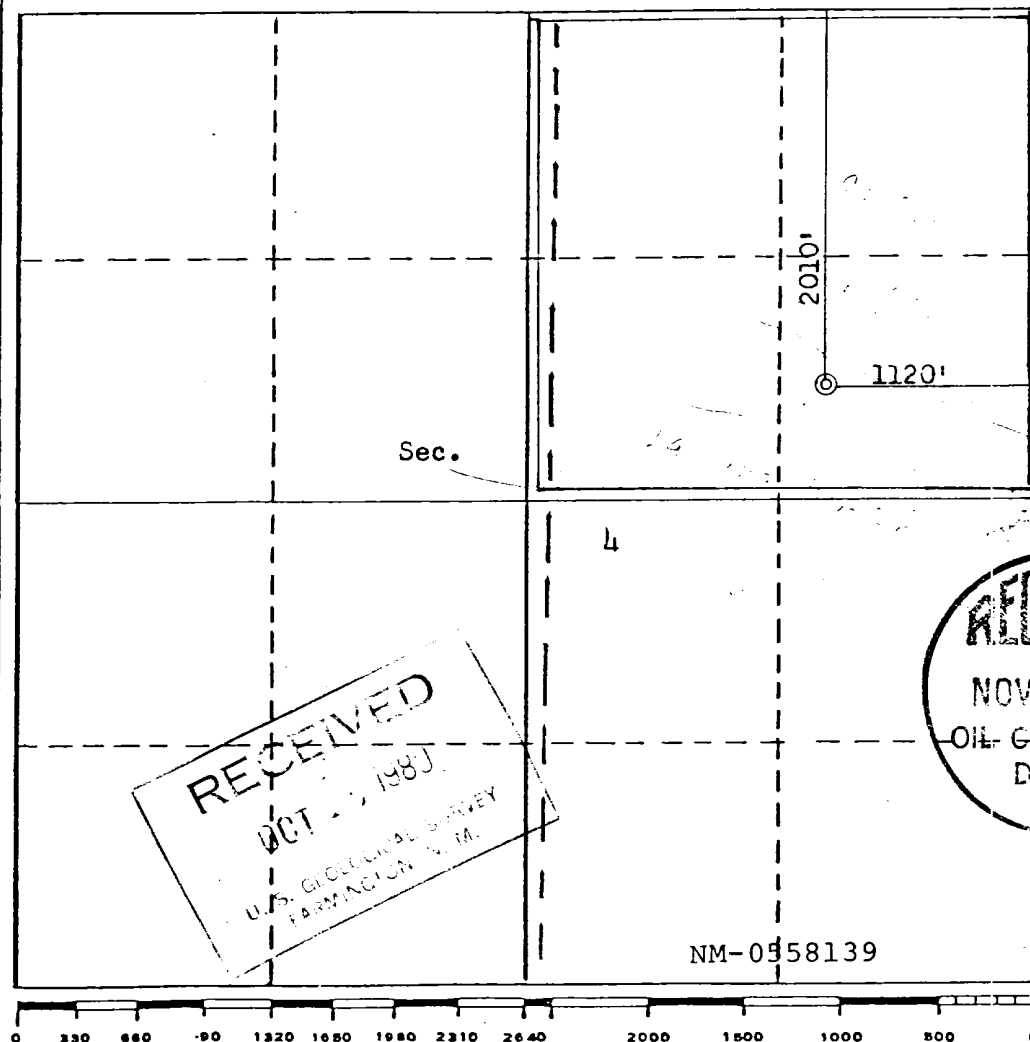
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for NSC  
w/ info  
www

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-78

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

Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>CREEK</b>		Well No. <b>2</b>
Unit Letter <b>H</b>	Section <b>4</b>	Township <b>29N</b>	Range <b>5W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>2010</b> feet from the <b>North</b> line and <b>1120</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6343</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>Blanco</b>		Dedicated Acreage: <b>160/62.08</b> Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p>					



## 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

Robert E. Fielder

Position

District Engineer

Company

Southland Royalty Co.

Date

October 8, 1980

I hereby certify that the well location shown on this plat was plotted from field notes or 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

May 23, 1980

Registered Professional Engineer  
and/or Land Surveyor*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No.

3950

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

C R E E K # 2

2010' FNL & 1120' FEL  
Section 4, T29N, R5W  
Rio Arriba Co., NM

Field: Blanco Pictured Cliffs

Elevation: 6343' GR

Geology: Formation Tops

Ojo Alamo	2355'
Fruitland	3005'
Pictured Cliffs	3145'
Total Depth	3435'

Logging Program: IES and GR-Density from Total Depth to surface casing.

Drilling:

Contractor:

Tool Pusher:

SRC Rep.:

SRC Answ. Svc.: 325-1841  
Dispatch No.: 325-7391

Mud Program:

0' - 300'	Spud mud
300' - 2950'	Benex and water
2950' - 3435'	Fresh water, low solids mud

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12 1/4"	300'	8 5/8"	24.0# K-55
	7 7/8"	3435'	4 1/2"	10.5# K-55

Float Equipment:

8 5/8" surface casing: B & W cement guide shoe (FC01).

4 1/2" production casing: B & W, D. W. Geyser shoe (FC03). Run B & W flapper float collar (FP01) one joint up with 5 standard centralizers (AA02) every other joint above shoe.

Wellhead equipment: 8 5/8" X 10" 2000# bradenhead

10" 2000# X 6" 2000# casinghead

Cementing:

8 5/8" surface casing: 210 sx (248 cu. ft.) C1 E w/1/4# gel flake per sx & 3% CaCl. WOC 12 hours. Test to 600 psi prior to drilling out. (Volume is 100% excess.)

4 1/2" production casing: Lead - 210 sx (311 cu. ft.) of C1 B, 50/50 poz w/6% gel.

Tail - 50 sx (59 cu. ft.) of C1 B neat.  
(Volume is 50% excess to gauge hole to cover Ojo Alamo.)

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L. O. Van Ryan  
District Production Manager

JAC/ke  
9-29-80



**Southland Royalty Company**

October 8, 1980

United States Geological Survey  
Mr. James F. Sims  
District Oil and Gas Supervisor  
P. O. Box 959  
Farmington, NM 87401

Dear Mr. Sims:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's CREEK #2 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 for this well will be La Jara Wash .

The terrain is rolling hills with sagebrush. The location will be restored according the 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. Either he or myself may be reached anytime at 325-7391.

Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder  
District Engineer

REF/ke



**Southland Royalty Company**

October 8, 1980

United States Geological Survey  
Mr. James F. Sims  
District Oil and Gas Supervisor  
P. O. Box 959  
Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Mr. Sims:

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 ensure proper operation.

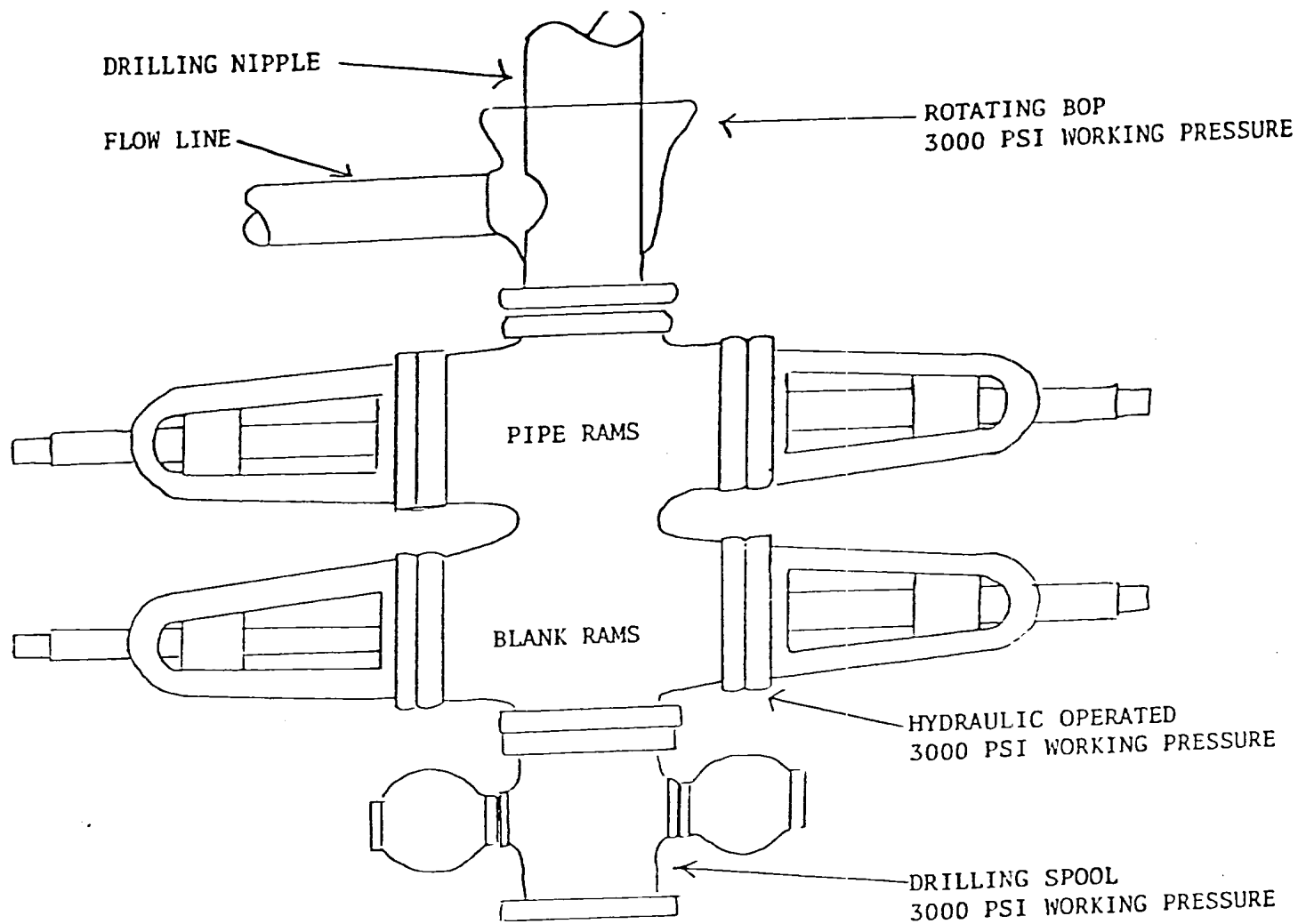
Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder  
District Engineer

REF/ke

Southland Royalty Company  
Creek #2  
Section 4, T29N, R5W  
Rio Arriba, NM



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



**Southland Royalty Company**

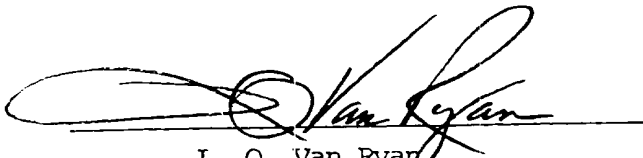
October 8, 1980

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





Vicinity Map for  
SOUTHLAND ROYALTY COMPANY #2 CREEK  
2010'FNL 1120'FEL Sec. 4-T29N-R5W  
RIO ARRIBA COUNTY, NEW MEXICO