

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

1510' FSL & 2390' FEL

At proposed prod. zone

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

Approximately 6 miles east of Bloomfield, NM

15. DISTANCE FROM PROPOSED*

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

190'

16. NO. OF ACRES IN LEASE

2337.48

18. DISTANCE FROM PROPOSED LOCATION*

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

150'

19. PROPOSED DEPTH

6668'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320-13/31.544E/313.54

20. ROTARY OR CABLE TOOLS

Rotary

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

5668' GR

22. APPROX. DATE WORK WILL START*

September 30, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	10 3/4"	32.75#	200'	136 sacks
9 7/8"	7 5/8"	26.40#	2272'	374 sacks
6 3/4"	5 1/2"	15.5#	2122'-6668'	433 sacks



Surface formation is Nacimiento.

The top of the Ojo Alamo sand is at 702'. The top of the Kirtland shale is at 1028'.

The top of the Pictured Cliffs sand is at 2071'.

Fresh water mud will be used to drill from surface to intermediate TD.

An air system will be used to drill from intermediate TD to TD.

It is anticipated that an IES and a GR-Density log will be run at intermediate TD and a GR-Induction and a GR-Density log will be run at TD.

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.

This action is subject to administrative
appeal pursuant to 30 CFR 2901

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

APPROVED

TITLE District Engineer

DATE 4-18-80

(This space for Federal or State office use)

AS AMENDED

PERMIT NO.

APPROVAL DATE

APPROVED BY

JAMES F. SIMS

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

DISTRICT ENGINEER

NWU-3-203 both zones

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

Operator SOUTHLAND ROYALTY COMPANY			Lease REID "A"		Well No. 1-M
Unit Letter J	Section 13	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1510 feet from the South line and 2390 feet from the East line					
Ground Level Elev. 5668	Producing Formation Dakota - Mesa Verde		Pool Basin - Blanco		Dedicated Acreage: 313.54 320 313.54 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 Curtis C. Parsons	
	Position District Engineer	
	Company Southland Royalty Company	
	Date April 16, 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 April 10, 1980		
Registered Professional Engineer and/or Land Surveyor 		
Certificate No. 3950		

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

REID "A" #1 M
1510' FSL & 2390' FEL
Section 13, T29N, R10W
San Juan County, New Mexico

Field: Basin Dakota/Blanco Mesa Verde Elevation: 5668' GR

Geology: Formation Tops

Ojo Alamo	702'	Gallup	5587'
Fruitland	1748'	Greenhorn	6342'
Pictured Cliffs	2071'	Graneros	6450'
Intermediate TD	2272'	Dakota	6533'
Cliff House	3740'	Total Depth	6668'
Pt. Lookout	4392'		

Logging Program: IES and GR-Density will be run at Intermediate Total Depth.
GR-Induction and GR-Density will be run at Total Depth.

Drilling:

Contractor:

Tool Pusher:

SRC Representative:

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

Mud Program: Drill with fresh water mud from surface to Intermediate TD.
Drill with air from Intermediate TD to TD.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	13 3/4"	200'	10 3/4"	32.75# H-40
	9 7/8"	2272'	7 5/8"	26.40# H-40
	6 3/4"	2122'-6668'	5 1/2"	15.5# K-55

Float Equipment:

10 3/4" Surface Casing: Pathfinder type "A" guide shoe.

7 5/8" Production Casing: Pathfinder type "A" guide shoe. Self-fill valve.
Five bow-type centralizers. Run float valve 2 joints above shoe. Run centralizers every other joint above shoe.

5 1/2" Liner: TTW liner hanger with neoprene pack-off. Pathfinder type "AP" guide shoe and type "A" float valve.

Wellhead Equipment: 10 3/4" x 10", 2000# casinghead
10", 2000# x 6", 2000# tubinghead

Cementing:

- 10 3/4" Surface Casing: 136 sacks (160 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl_2 . WOC for 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)
- 7 5/8" Production Casing: 284 sacks (506 cu. ft.) of 50/50 Class "B" Poz with 6% gel (mixed with 7.2 gallons of water per sack), followed by 90 sacks of Class "B" with 2% CaCl_2 . WOC for 12 hours. Run temperature survey 8 hours after plug down. (Volume is 50% excess to cover Ojo Alamo.)
- 5 1/2" Liner: 433 sacks (645 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack and 0.6% Halad 9 or equivalent (70% excess).

Precede cement with 20 barrels of gel water.

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

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.

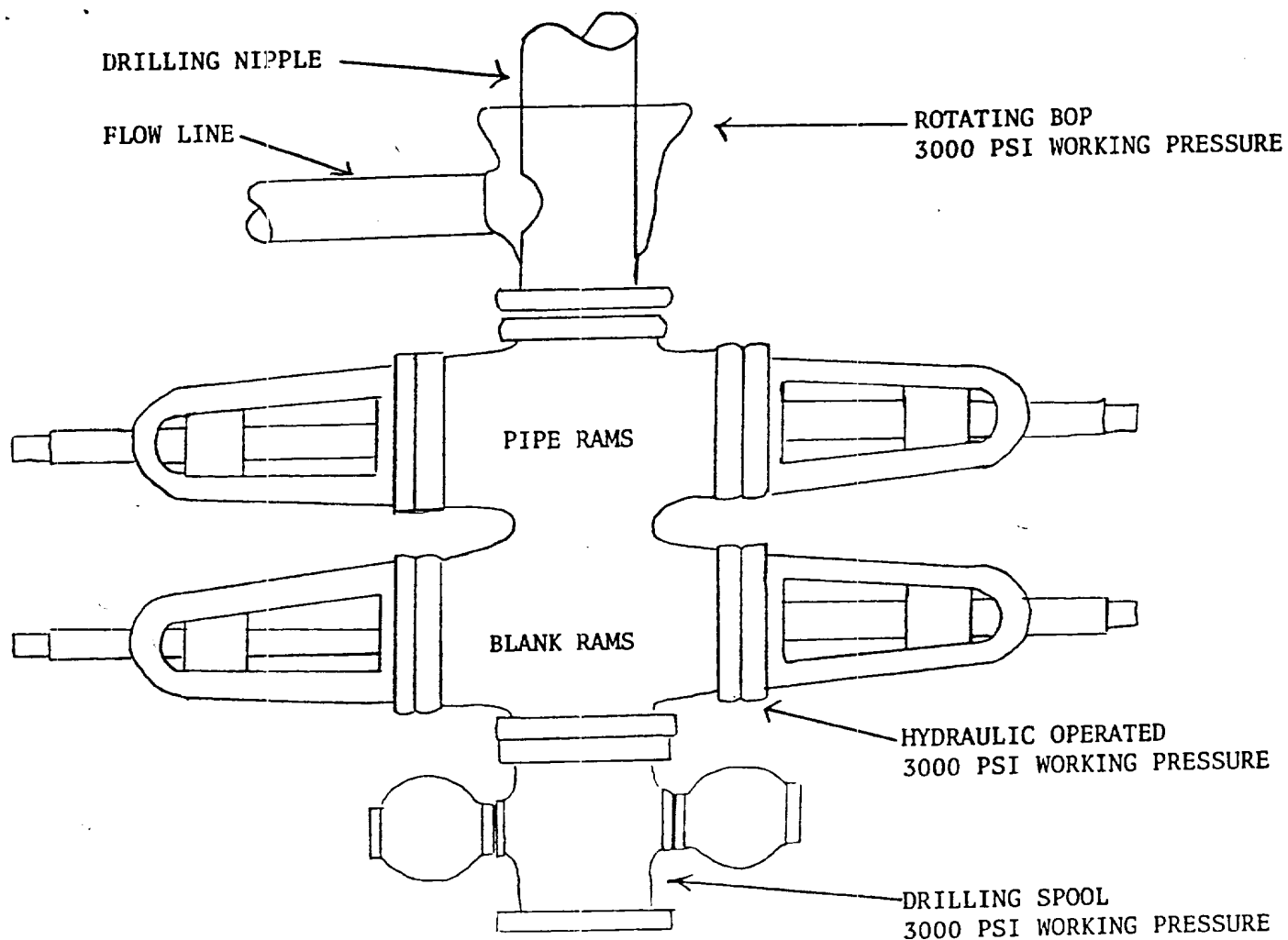
The preventer is 3000# working pressure and 6000# test pressure.

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
District Engineer

CCP/ke



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

Southland Royalty Company
Reid "A" #1M
1510' FSL & 2390' FEL
Section 13, T29N, R10W
San Juan County, New Mexico



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 Reid "A" #1M 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.

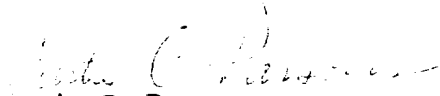
Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

Water supply will be Blanco 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,


Curtis C. Parsons
District Engineer

OCP/ke



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.

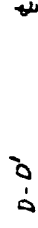
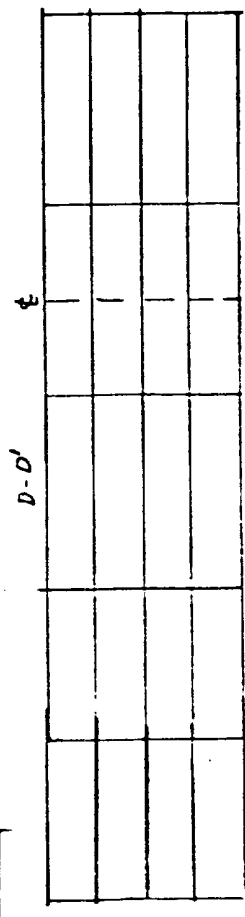
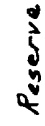
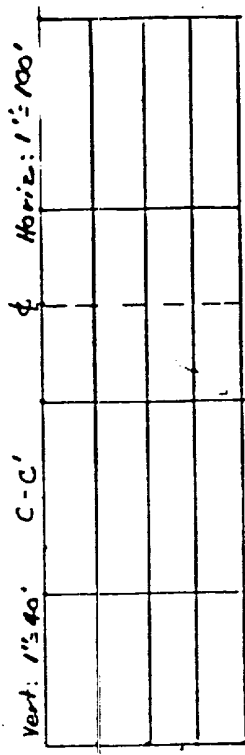
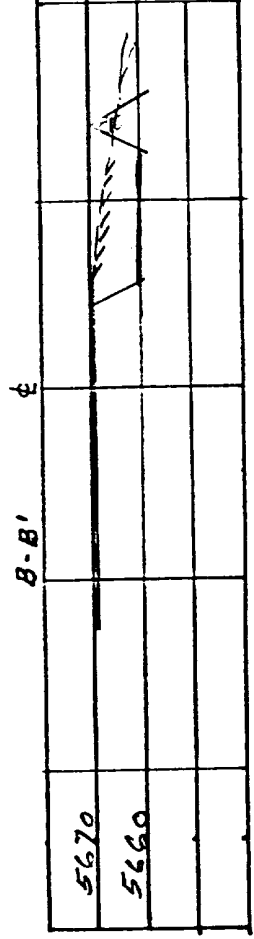
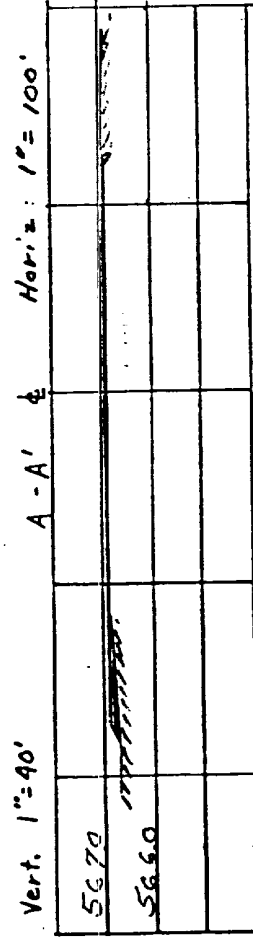
Date:



L. O. Van Ryan
District Production Manager

LOVR/ke

201 ATTORNEY NOTARIAL



KERR LAND SURVEYING
Date: April 10, 1980

BLOOMFIELD QUADRANGLE
NEW MEXICO-SAN JUAN CO.
15 MINUTE SERIES (TOPOGRAPHIC)

NAVAJO DAM 12 MI
TURLEY 0.8 MI

