

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-23758

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

5. LEASE DESIGNATION AND SERIAL NO.  
 SF-072465 SF-076465  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

2. NAME OF OPERATOR  
 Southland Royalty Company

7. UNIT AGREEMENT NAME

3. ADDRESS OF OPERATOR  
 P. O. Drawer 570, Farmington, New Mexico

8. FARM OR LEASE NAME  
 Beck "A"

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 870' FNL & 790' FEL  
 At proposed prod. zone

9. WELL NO.  
 #2

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
 4 miles East of Farmington, New Mexico

10. FIELD AND POOL, OR WILDCAT  
 Fulcher Kutz Pictured Cliff

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
 Section 10-T29N-R12W

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2794'

12. COUNTY OR PARISH 13. STATE  
 San Juan New Mexico

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5677' GR

16. NO. OF ACRES IN LEASE 400  
 17. NO. OF ACRES ASSIGNED TO THIS WELL 160

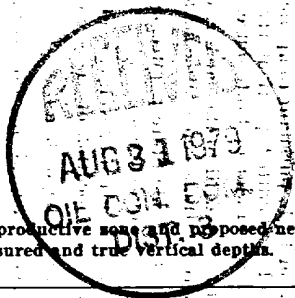
23. PROPOSED CASING AND CEMENTING PROGRAM

19. PROPOSED DEPTH 1842'  
 20. ROTARY OR CABLE TOOLS Rotary

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	200' *	140 sxs (165 cu. ft.)
6-3/4"	2-7/8"	6.5#	1842'	178 sxs (325 cu. ft.)

22. APPROX. DATE WORK WILL START\*  
 September 15, 1979

\* or 90' of surface casing & cement across the Ojo Alamo behind, long string or cement plug across Ojo Alamo if plugged  
 Surface formation is Nacimiento.  
 Top of Ojo Alamo sand is at 777'.  
 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 November 1, 1979. This depends on time required for approvals, rig availability and the weather.  
Gas is dedicated.



Acreage Dedicated: NE/4 Section 10-T29N-R12W

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. [Signature] District Production Manager DATE August 17, 1979

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
 ok Fresh

WYMOCC

\*See Instructions On Reverse Side

# 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.

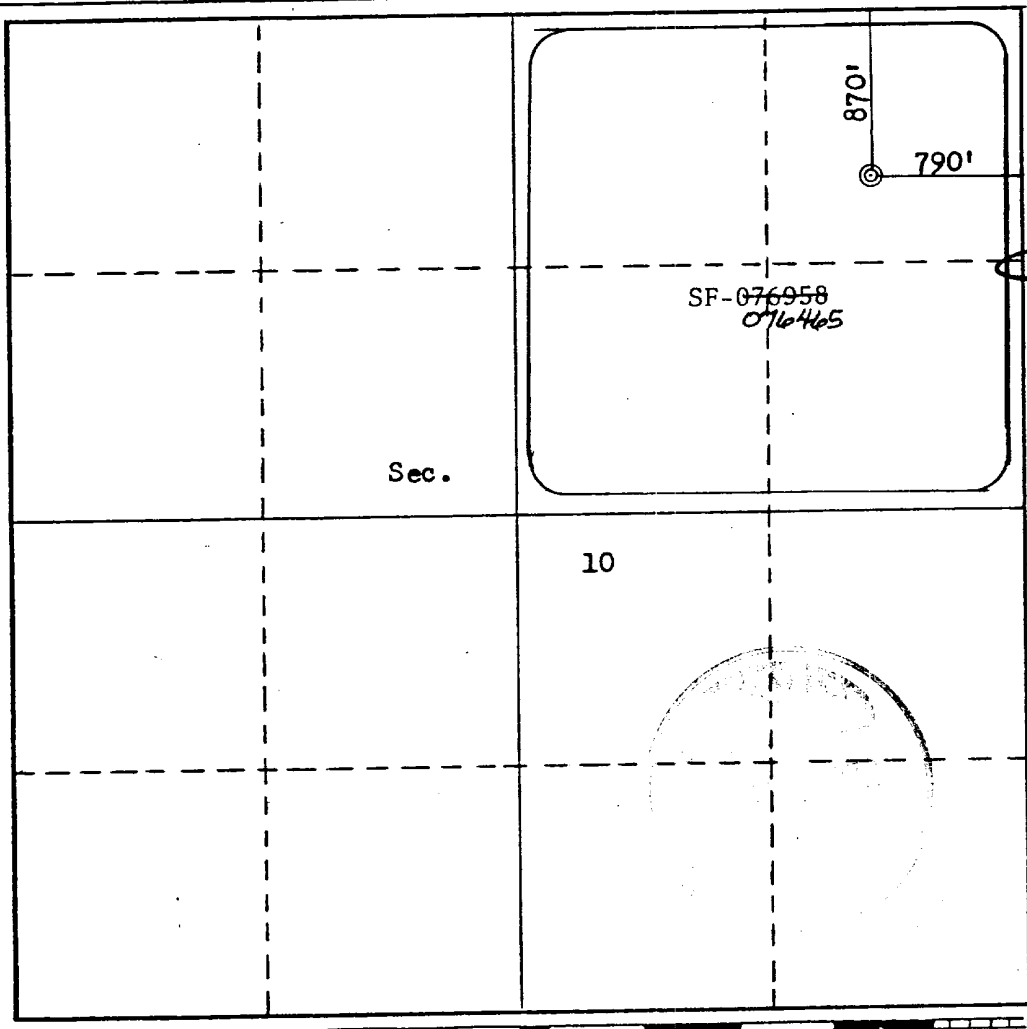
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>BECK "A"</b>		Well No. <b>2</b>
Unit Letter <b>A</b>	Section <b>10</b>	Township <b>29N</b>	Range <b>12W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>870</b> feet from the <b>North</b> line and <b>790</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5677</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>Fulcher Kutz</b>	Dedicated Acreage: <b>160</b> 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.



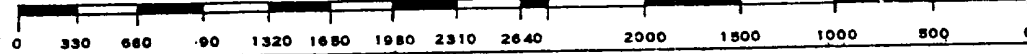
### CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: *[Signature]*  
 Position: **District Production Manager**  
 Company: **Southland Royalty Company**  
 Date: **August 17, 1979**

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: **August 17, 1979**  
 Registered Professional Engineer and/or Land Surveyor of **NEW MEXICO**  
*[Signature]*  
**Fred B. Kerr, Jr.**  
 Certificate No. **3950**





**Southland Royalty Company**

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

Attention:

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: August 17, 1979

Name: 

Title: District Production Manager



**Southland Royalty Company**

August 17, 1979

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

Attention:

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Beck "A" #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.

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 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**

August 17, 1979

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

Attention:

Re: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 8" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

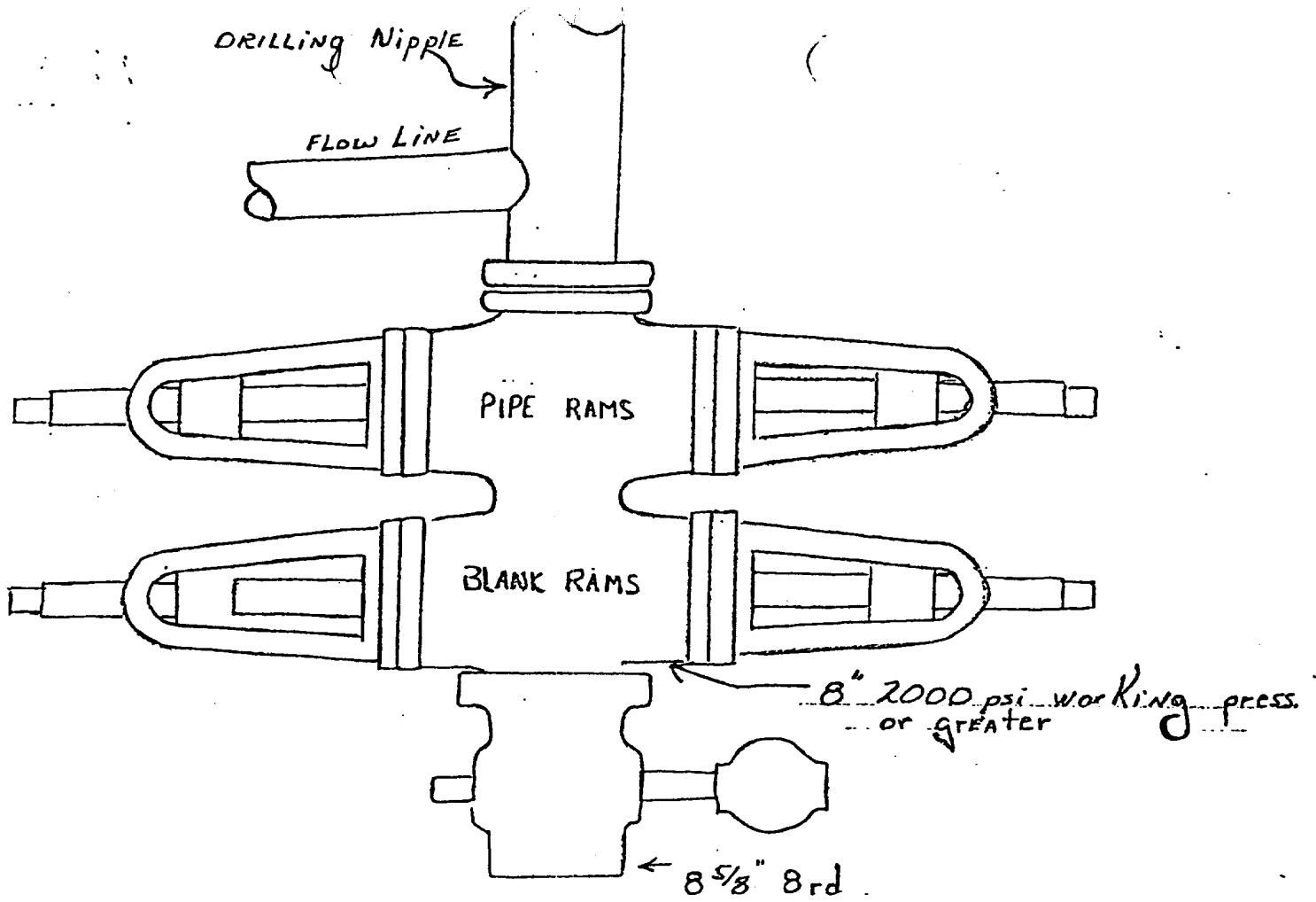
The preventer is 3000# working pressure and 6000# test.

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,

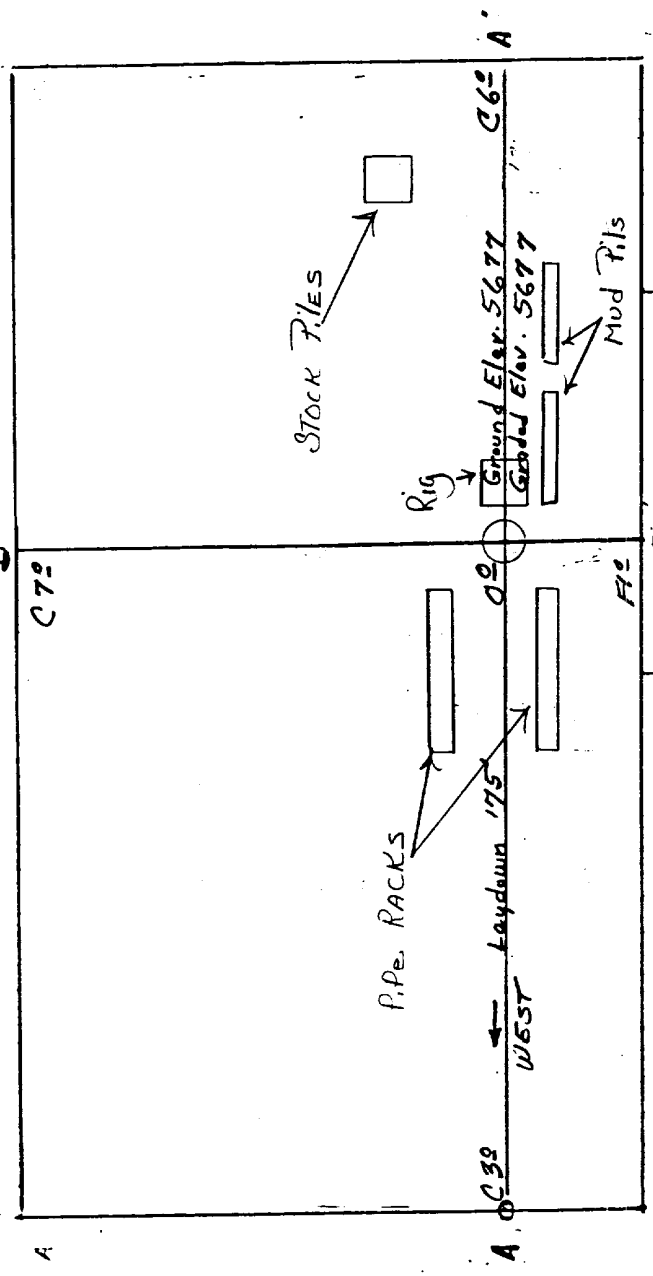
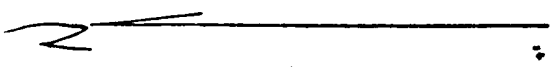
L. O. Van Ryan  
District Production Manager

LOVR/dg



Preventers and spools are to have through bore of 8" - 2000# or larger.

SOUTHLAND ROYALTY CO. #2 BECK "A"  
 870' FNL 790' FEL Sec 10-T29N-R12W San Juan County, New Mexico



Vert: 1"=40' Horiz: 1"=100'


Vert. 1"=40' Horiz: 1"=100'

5580			
5570			
5660			



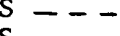

D-D'


B-B'

5680			
5670			
5660			

KERR LAND SURVEYING  
 Date: \_\_\_\_\_



PROPOSED LOCATION   
 EXISTING LOCATIONS   
 PROPOSED ROADS   
 EXISTING ROADS 

Vicinity Map for  
 SOUTHLAND ROYALTY COMPANY #2 BECK "A"  
 870'FNL 790'FEL Sec 10-T29N-R12W  
 SAN JUAN COUNTY, NEW MEXICO



DRILLING SCHEDULE - Beck "A" #2

Location: 870' FNL & 790' FEL, Section 10, T29N, R12W, San Juan County, New Mexico

Field Fulcher Kutz Pictured Cliffs

Elevation: 5766' GR

Geology:

Formation Tops:	Ojo Alamo	777'
	Fruitland	1417'
	Pictured Cliffs	1742'
	Total depth	1842'

Logging Program: IES and GR-Density at total depth.

Coring Program : None

Natural Gauges : None

Drilling

Contractor:	Tool Pusher:
	SRC Answering Service: 325-1841
SRC Representative:	Dispatch Number: 325-7391
Mud Program:	Fresh water mud from surface to total depth.

Materials

Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. &amp; Grade</u>	
	12-1/4"	200'	8-5/8"	24#	K-55
	6-3/4"	1842'	2-7/8"	6.5#	K-55

Float Equipment

8-5/8" Surface Casing: Pathfinder cement guide shoe (#1003-1-010).

2-7/8" Production Casing: Notched collar guide shoe. Howco 2 7/8" latch down baffle (Pr. Ref. 60). Two 3 1/16" rubber balls and one 2 7/8" Omega latching plug (Pr. Ref. 59). Use 3 1/4" plug container head. Six (6) B & W stabilizers on bottom 6 joints.

Wellhead Equipment: 8 5/8" X 2 7/8", EUE, screwed head.

DRILLING SCHEDULE - BECK "A" #2

8.625" (8-5/8") Surface Casing:

140 sxs (165 cu.ft.) of Class "B" with 1/4# gel flake per sx and 3% CaCl. WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess to circulate.)

2.875" (2-7/8") Production Casing:

325 sxs (178 cu.ft.) of 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sx to weigh 12.85 ppg. Tail in with 50 sxs Class "B" with 2% CaCl. If lost circulation occurs, add 1/4 cu.ft. fine gilsonite per sx. (50% excess to cover Ojo Alamo.) Displace cement with 50 gals of 7-1/2% acetic acid. Run temperature survey after 12 hours.