

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 30-039-22091 NM-0558139
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTED OR TRIBE NAME
2. NAME OF OPERATOR Southland Royalty Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Drawer 570, Farmington, NM 87401		8. FARM OR LEASE NAME Creek
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 870' FSL & 800' FEL At proposed prod. zone		9. WELL NO. #1-A
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 4 miles NE of Gobernador, New Mexico		10. FIELD AND POOL OR WILDCAT Gobernador Pictured Cliff: Blanco Mesa Verde
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 4, T29N, R5W
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH Rio Arriba
17. NO. OF ACRES ASSIGNED TO THIS WELL 322.08		13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		20. ROTARY OR CABLE TOOLS Rotary
19. PROPOSED DEPTH 6058'		21. APPROX. DATE WORK WILL START* 6-15-79
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6634' GR		

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	300'	160 sacks
8 3/4"	7"	20#	3865'	195 sacks
6 1/4"	4 1/2"	10.5#	3715'-6058'	275 sacks
	2 3/8"	4.7#	6000'	
	1 1/4"	2.30#	3550'	

Surface formation is San Jose.

Top of Ojo Alamo sand is at 2668'.

Top of Pictured Cliffs sand is at 3565'.

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

An air system will be used to drill from intermediate total depth to total depth.

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

It is anticipated that a GR-Density and a GR-Induction 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 September 1, 1979.

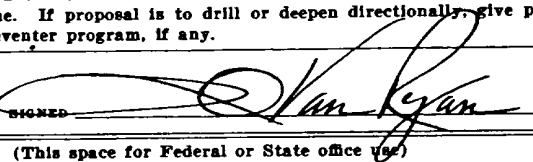
This depends on time required for approval, rig availability and the weather.

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



TITLE District Production Manager DATE 6-5-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

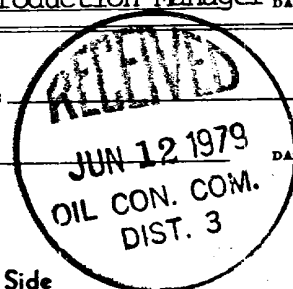
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ak Fresh

\*See Instructions On Reverse Side



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

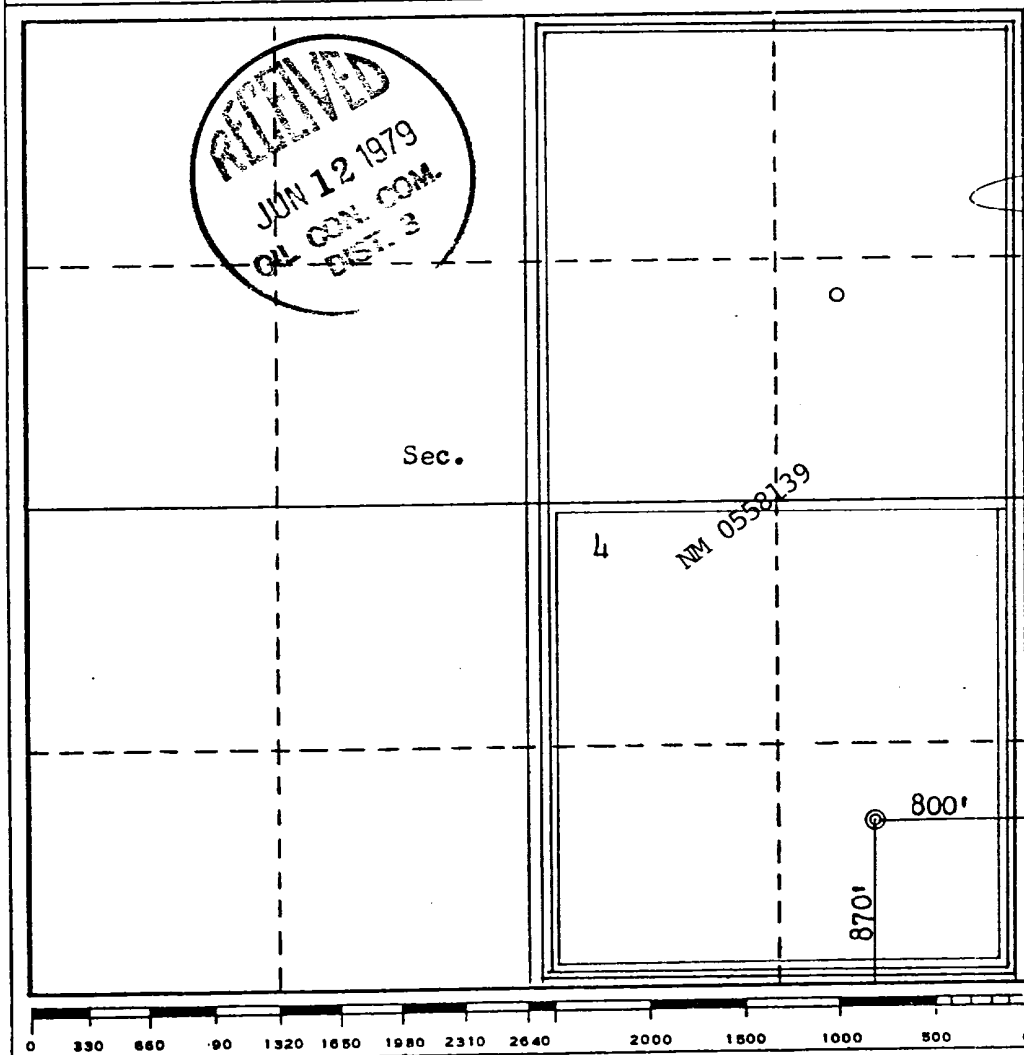
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>CREEK</b>		Well No. <b>1A</b>
Unit Letter <b>P</b>	Section <b>4</b>	Township <b>29N</b>	Range <b>5W</b>	County <b>RIO ARriba</b>	
Actual Footage Location of Well: <b>870</b> feet from the <b>South</b> line and <b>800</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6634</b>	Producing Formation <b>Mesa Verde-Pict. Cliffs</b>		Pool <b>Blanco - Gobernador</b>	Dedicated Acreage: <b>32208/160</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.

*[Signature]*  
 Name  
**L. O. Van Ryan**  
 Position  
**District Production Manager**  
 Company  
**Southland Royalty Company**  
 Date  
**June 5, 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  
**February 22, 1979**  
 Registered Professional Engineer and/or Land Surveyor  
*[Signature]*  
**Frederick B. Kerr Jr.**  
 Certificate No. **3950**



**Southland Royalty Company**

June 5, 1979

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado 81301

Attention: Mr. Jerry Long

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Creek #1-A 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, pipe racks and cut required to build this location.

Water supply will be La Jara Wash. All water will be transported by truck and stored on location.

The location will be restored according to Forest Service 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**

June 5, 1979

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" 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

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

C R E E K   # 1 A

Location: 870' FSL & 800' FEL, Section 4, T29N, R5W, Rio Arriba, New Mexico

Field: Gobernador Pictured Cliffs/Blanco Mesa Verde      Elevation: 6634' GR

Geology: Formation Tops

Ojo Alamo	2668'	Cliff House	5447'
Fruitland	3272'	Point Lookout	5708'
Pictured Cliffs	3565'	Total Depth	6058' - add 50' if hole gets wet
Intermediate TD	3865'		

Logging Program: GR-Density and IES at Intermediate TD.  
GR-Density and GR-Induction at TD.

Natural Gauges: Gauge at last connection above Cliff House,  
Point Lookout and Total Depth.  
Gauge any increase in gas flow.

Drilling:

Contractor:

Tool Pusher:

SRC Rep:

SRC: 325-1841

Dispatch: 325-7391

Mud Program: Fresh water mud from surface to Intermediate TD.  
Air from intermediate to TD.

Materials:

Casing Program

<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. &amp; Grade</u>
12 1/4"	300'	9 5/8"	36# K-55
8 3/4"	3865'	7"	20# K-55
6 1/4"	3715'-6058'	4 1/2"	10.5# K-55

Float Equipment:

9 5/8" Surface Casing: Pathfinder, type "A", guide shoe.

7" Intermediate Casing: Pathfinder, type "A", guide shoe. Pathfinder, self-fill insert float valve. Five Pathfinder, rigid centralizers. Run float 2 joints above shoe. Run centralizers every other joint above shoe.

4 1/2" Liner: Pathfinder, type "AP", guide shoe. Pathfinder, type "A", flapper float collar. Liner hanger will have PBR.

Tubing: 6000' of 2 3/8", EUE and 3550' of 1 1/4", IJ.

Wellhead Equipment: 9 5/8", X 10", 2000# casing head  
10", 2000# X 6", 2000# tubing head.

Cementing:

9 5/8" surface casing: 189 cu. ft. 160 sx Class "B" with 1/4# gel flake per sack and 3%  $\text{CaCl}_2$  (100% excess).

7" intermediate casing: 275 cu. ft. 145 sx 50/50, Class "B", Poz with 6% gel. Mix with 7.2 gals water per sack to weigh 12.85 ppg. Tail in with 50 sacks of Class "B" with 2%  $\text{CaCl}_2$ . If lost circulation occurs, add 1/4# cello flake per sack (50% excess to cover Ojo Alamo).

4 1/2" liner: 410 cu. ft. Precede cement with 20 bbls. gelled water. Cement with 275 sx of 50/50, Class "B", Poz with 6% gel, 1/4# cello flake and .6% Halad 9. Mix cement with 7.2 gals water per sack to weigh 12.85 ppg (70% excess). If hole gets wet and mist drilling is required, use 100% excess to circulate liner.  
( 330 sx)

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L. O. Van Ryan  
District Production Manager

BJM/kde



**Southland Royalty Company**

United States Geological Survey  
P. O. Box 1809  
Durango, Colorado

Attention: Mr. Jerry Long

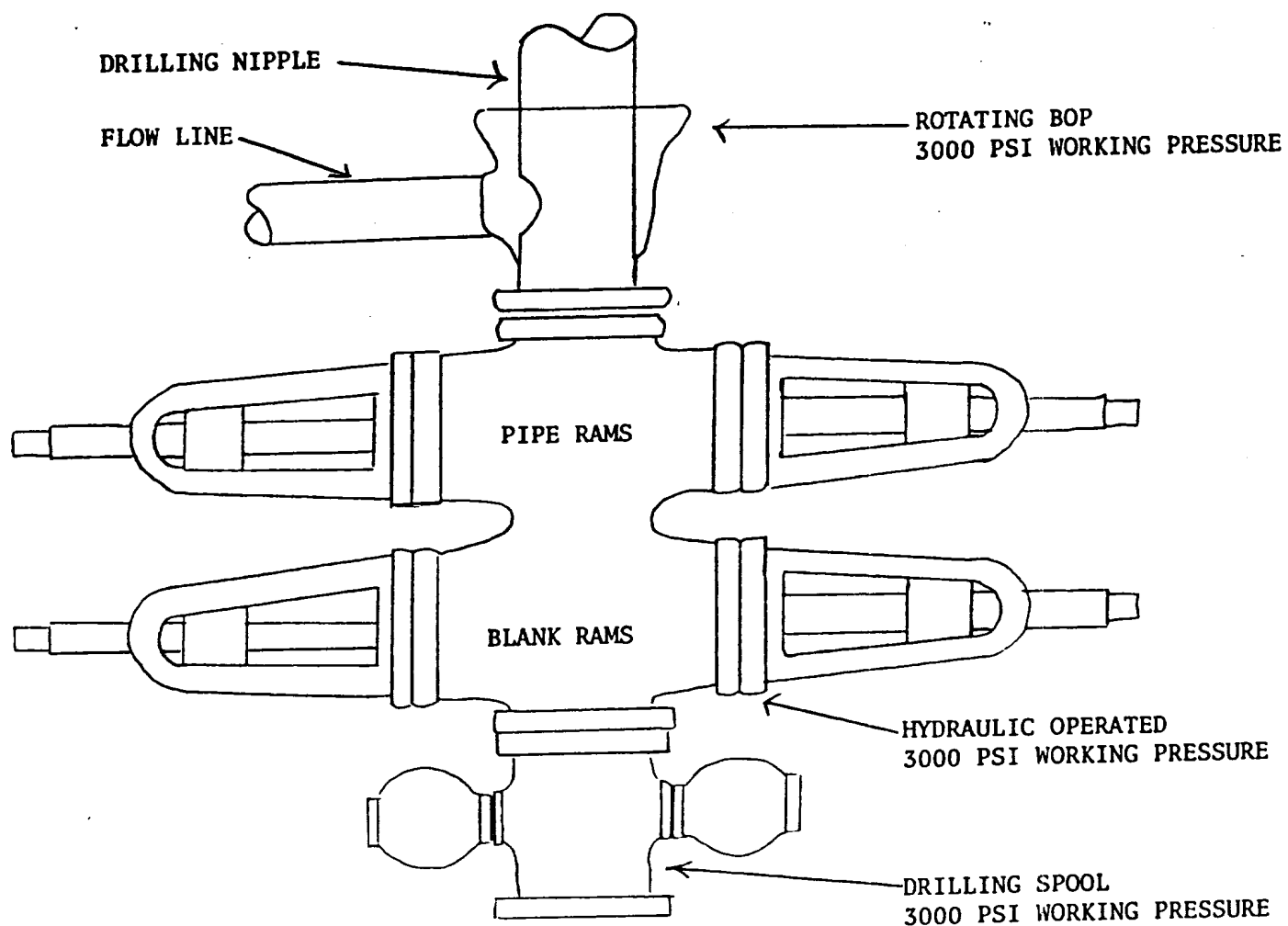
Dear Sir:

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: 6-5-79

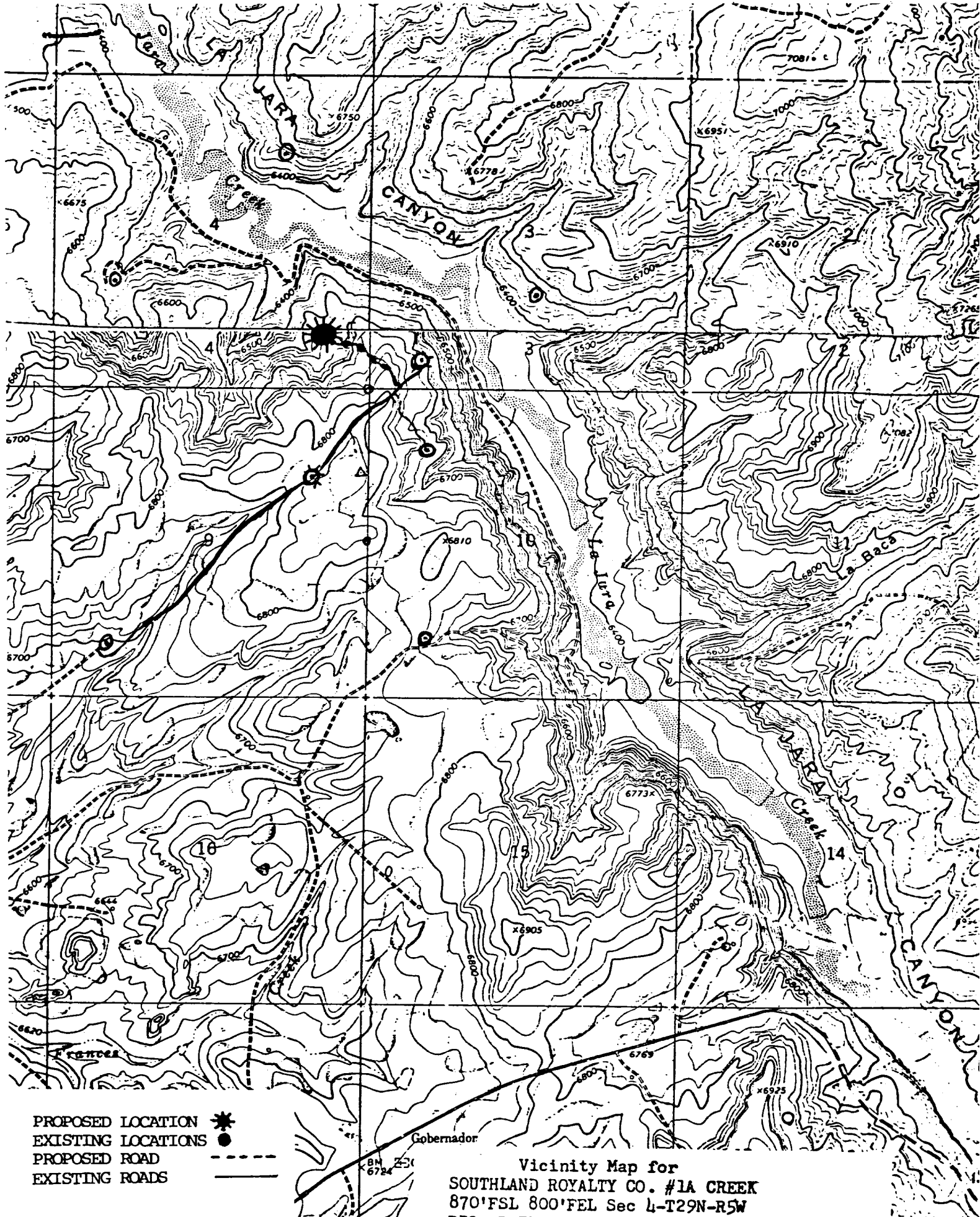
Name: 

Title: District Production Manager

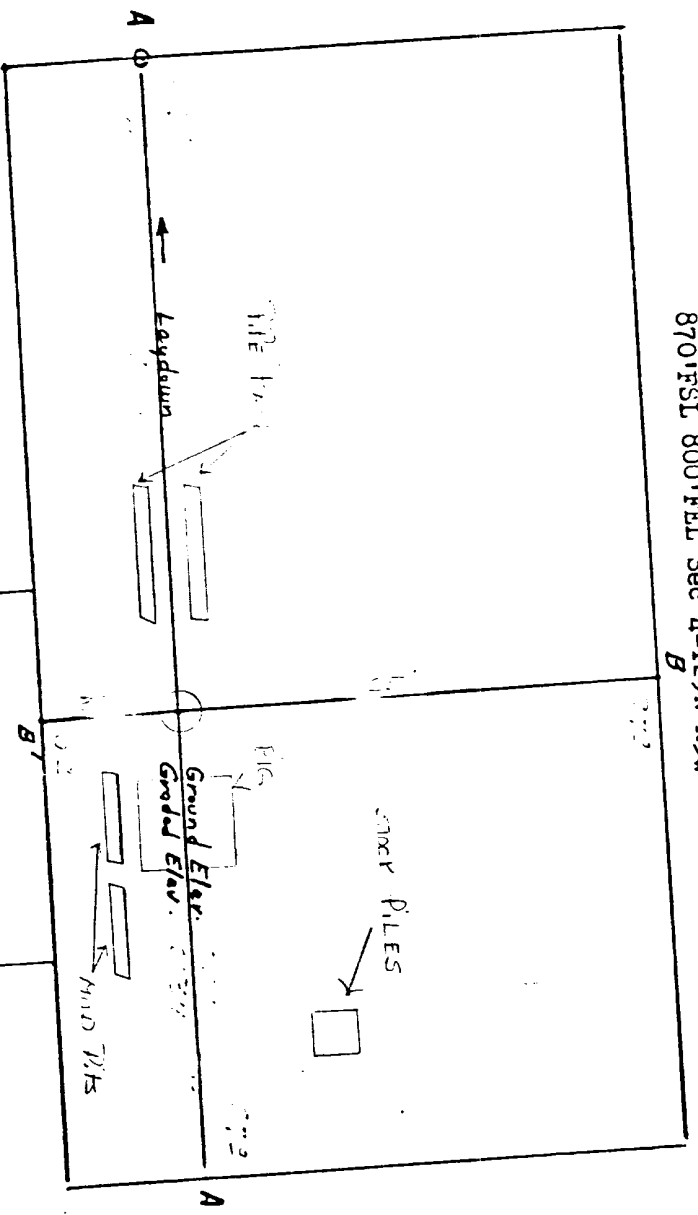


PREVENTERS AND SPOOLS ARE TO HAVE  
THROUGH BORE OF 6" - 3000 PSI OR LARGER



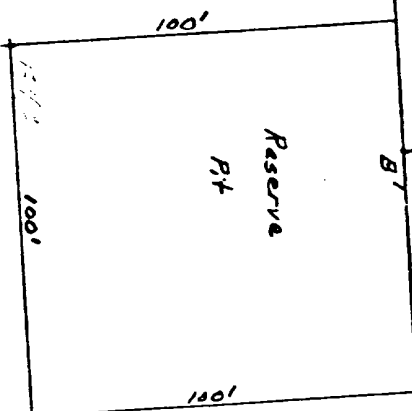


Location Profile for  
 SOUTHLAND ROYALTY CO. #1A CREEK  
 870' FSL 800' FEL Sec 1-729N-R5W  
 RIO ARRIBA COUNTY, NEW MEXICO



Vert. 1"=40'		A-A'		Horiz. 1"=100'	
6640					
6630					
6620					

B-B'			
6640			
6630			
6620			



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

D-D'			

KERR LAND SURVEYING  
 Date: 2/24/20