

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-24443-

5. LEASE DESIGNATION AND SERIAL NO.

SF-076958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hare

9. WELL NO.

#151 m

10. FIELD AND POOL, OR WILDCAT

Basin Dakota  
Blanco Mesa Verde11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Section 3, T29N, R10W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

## 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

930' FSL &amp; 1770' FEL

At proposed prod. zone

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

Approximately 4 miles northeast of Bloomfield, NM

15. DISTANCE FROM PROPOSED\*

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

1770'

16. NO. OF ACRES IN LEASE

2336.05

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

200'

19. PROPOSED DEPTH

6942'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

5862' 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 CIRCULATE
7 7/8"	5 1/2"	15.5#	6942'	174 sacks (stage one)
				163 sacks (stage two)
				296 sacks (stage three)

Surface formation is Nacimiento.

Top of the Ojo Alamo sand is at 757'.

Top of the Pictured Cliffs sand is at 2300'.

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.

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

*Art C. Parsons*

TITLE District Engineer

DATE

4-18-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

NMOCC

Daly NWU 3-197  
APPROVED AND RECORDED

ok 3rd

All distances must be from the outer boundaries of the Section

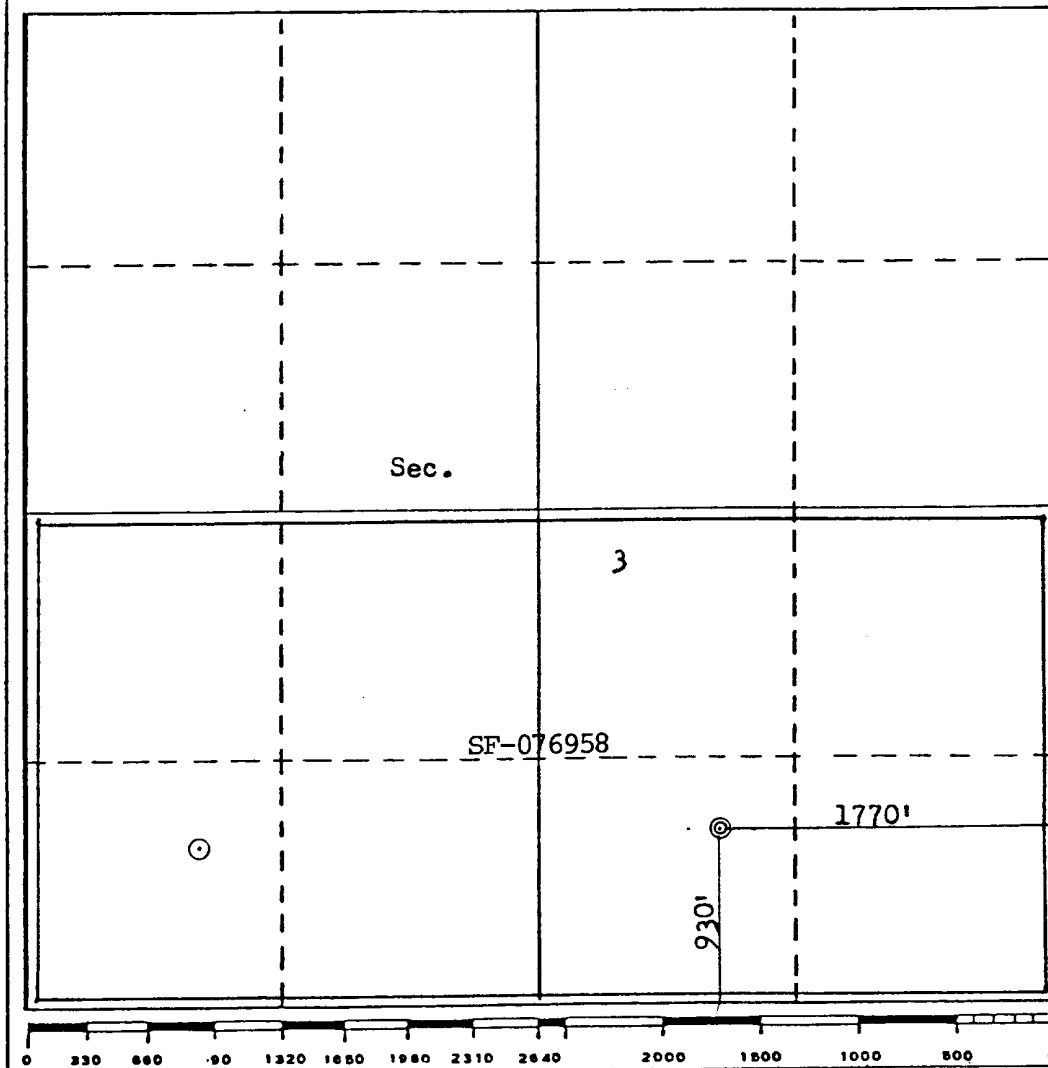
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>HARE</b>		Well No. <b>15-17M</b>
Unit Letter <b>0</b>	Section <b>3</b>	Township <b>29N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>930</b> feet from the <b>South</b> line and <b>1770</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5862</b>	Producing Formation <b>Dakota - Mesa Verde</b>		Pool <b>Basin - Blanco</b>		Dedicated Acreage: <b>320</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

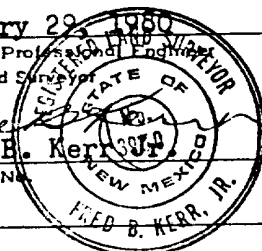
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Curtis C. Parsons*

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 23, 1980**  
Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr*  
**Fred B. Kerr, JR.**  
Certificate No.  
**3950**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other
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. See space 17 below.)  
AT SURFACE: 930' FSL & 1770' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

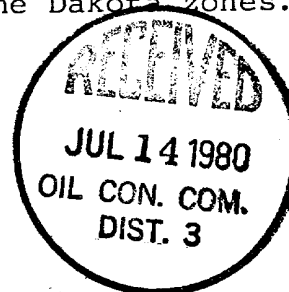
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Change Name	<input checked="" type="checkbox"/>	

5. LEASE  
SF-076958
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME  
Hare
9. WELL NO.  
#15M
10. FIELD OR WILDCAT NAME  
Basin Dakota  
Blanco Mesa Verde
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 3, T29N, R10W
12. COUNTY OR PARISH  
San Juan
13. STATE  
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5862' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Southland Royalty Company hereby requests permission to change the name of this well from the Hare #15E to the Hare #15M as the well will be infilled in both the Mesa Verde and the Dakota zones.



Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

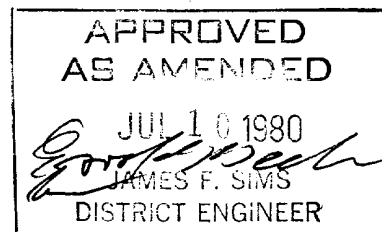
18. I hereby certify that the foregoing is true and correct

SIGNED \_\_\_\_\_ TITLE District Engineer 6-10-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

HARE #15E  
930' FSL & 1770' FEL  
Section 3, T29N, R10W  
San Juan County, New Mexico

Field: Basin Dakota/Blanco Mesa Verde Elevation: 5862' GR

Geology:

Formation Tops:	Ojo Alamo	757'	Gallup	5819'
	Fruitland	2037'	Greenhorn	6554'
	Pictured Cliffs	2300'	Graneros	6653'
	Cliff House	3931'	Dakota	6734'
	Point Lookout	4563'	Total Depth	6942'

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: Fresh water mud 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"	6942'	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 2442' and 4858' 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 1 1/2" IJ X 1 1/2"  
EUE hanger

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 - 124 sacks (184 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 - 163 sacks (241 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover top of Cliff House.)

Stage three - 296 sacks (438 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover top of 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 Hare #15E 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 or 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*  
Curtis C. Parsons  
District Engineer

OCP/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.

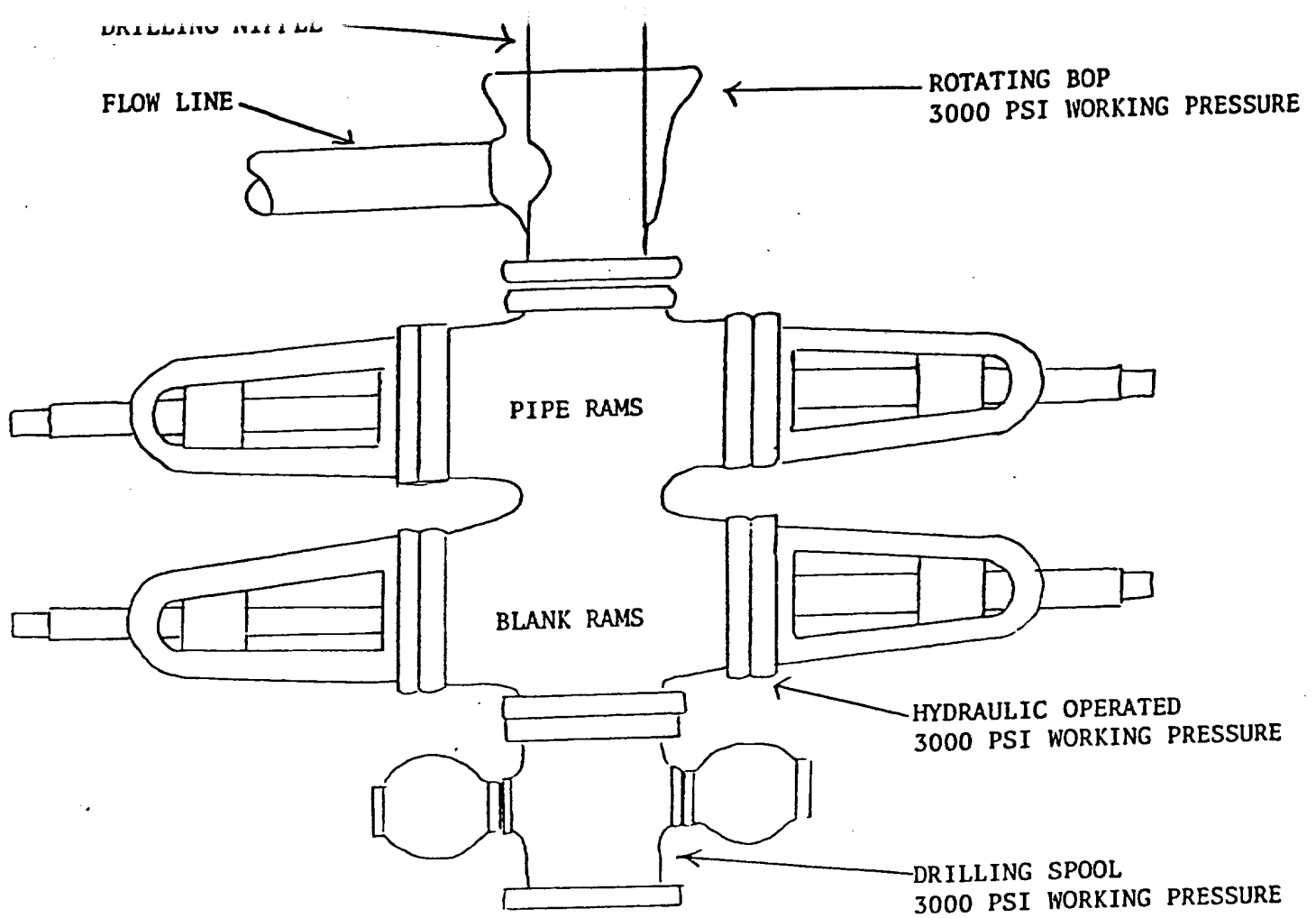
The preventer is 3000# working pressure and 6000# test pressure.

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  
District Engineer

CCP/ke



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

Southland Royalty Company  
Hare #15E  
930' FSL & 1770' FEL  
Section 3, T29N, 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:

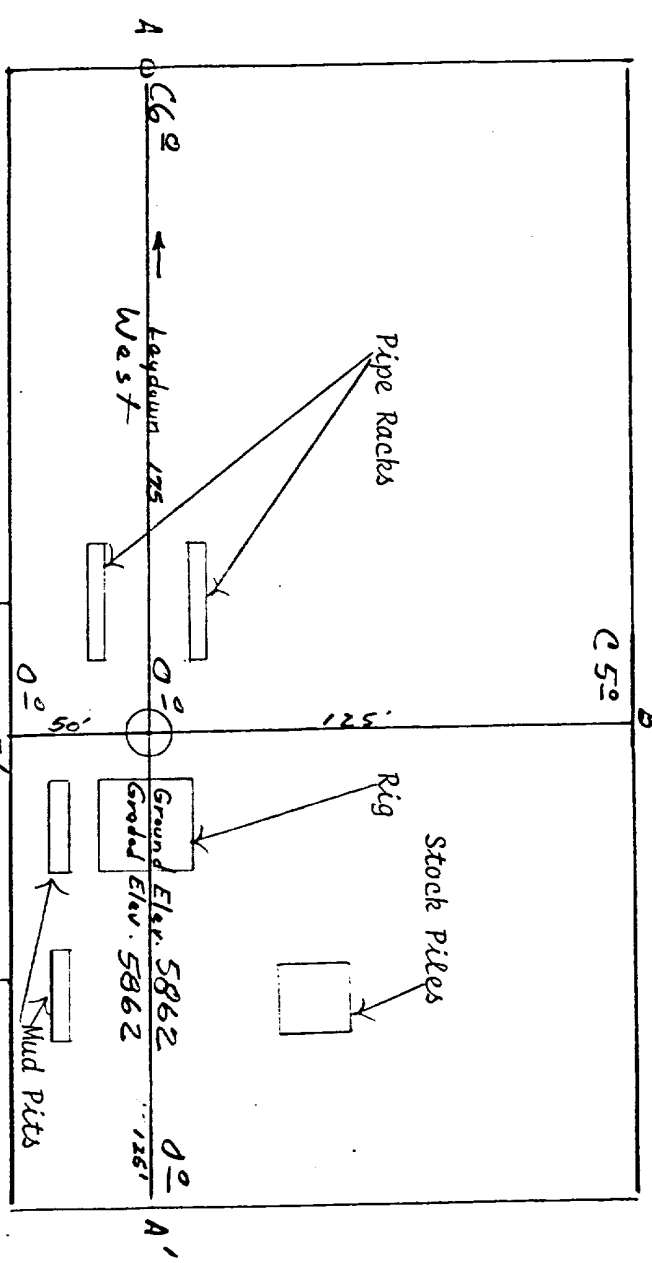
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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

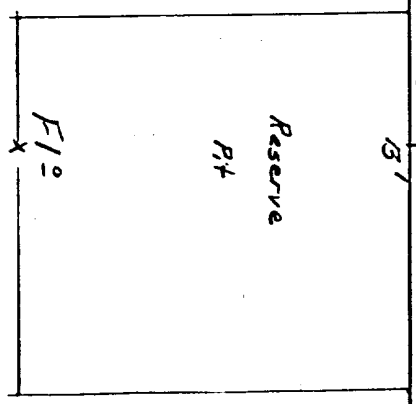
Location Profile for  
 SOUTHLAND ROYALTY COMPANY #15-E HARE  
 930 FSL 1770 FEL Sec. 3-T29N-R10W SAN JUAN COUNTY, NEW MEXICO



Scale: 1" = 50'

Vert. 1"=40'	A-A'	Horiz. 1"=100'
5870		
5860		
5850		

Vert. 1"=40'	B-B'	Horiz. 1"=100'
5870		
5860		
5850		

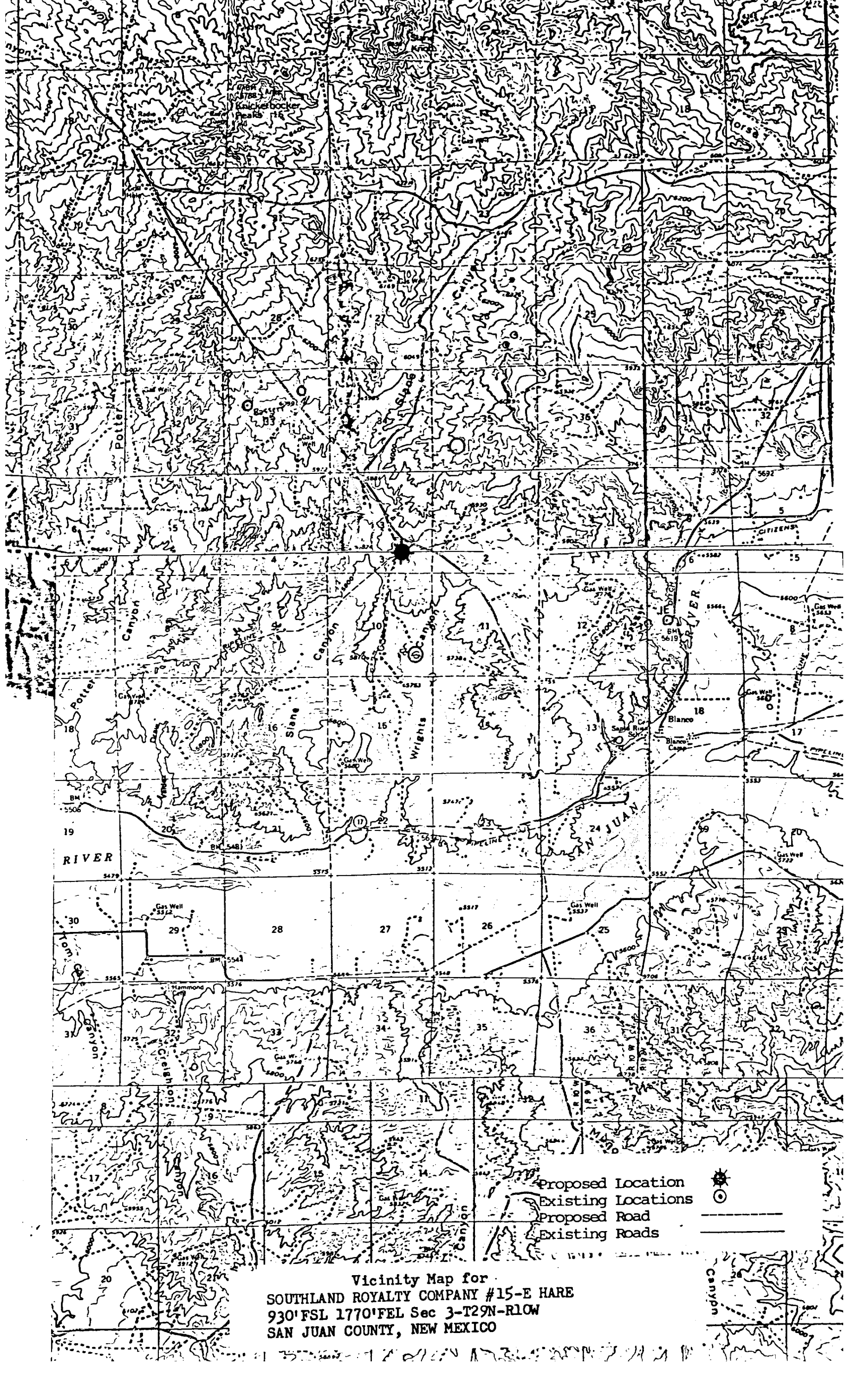


Vert. 1"=40'	C-C'	Horiz. 1"=100'

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

KERR LAND SURVEYING  
 Date: 2/27/80

*[Signature]*



Vicinity Map for  
SOUTHLAND ROYALTY COMPANY #15-E HARE  
930°FSL 1770°FEL Sec 3-T29N-R10W  
SAN JUAN COUNTY, NEW MEXICO