

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, New Mexico

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1460' FSL &amp; 830' FEL

At proposed prod. zone

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

6 miles South of Blanco, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

830'

## 16. NO. OF ACRES IN LEASE

2,040

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

496'

## 19. PROPOSED DEPTH

6590'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5883' GR

## 22. APPROX. DATE WORK WILL START\*

September 31, 1979

## 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 sxs (165 cu. ft.)        |
| 7-7/8"       | 5-1/2"         | 15.5#           | 6590'         | Stg 1 -216 sxs (323 cu. ft.) |
|              |                |                 |               | Stg 2 -217 sxs (324 cu. ft.) |
|              |                |                 |               | Stg 3 -176 sxs (262 cu. ft.) |

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 895'.

Top of Pictured Cliffs sand is at 2020'.

Top of Cliff House sand is at 3585'.

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

It is anticipated that an IES log will be run from total depth to surface casing.

It is anticipated that a GR-Density will be run from total depth to Cliff House.

No abnormal pressures or poisonous gases are anticipated in this well.

It is expected that this well will be drilled before November 31, 1979. This depends  
on time required for approvals

Gas is dedicated.

Dedicated Acreage: E/2 Section 24, T28N, R10W

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 August 23, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

nmocc

\*See Instructions On Reverse Side

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

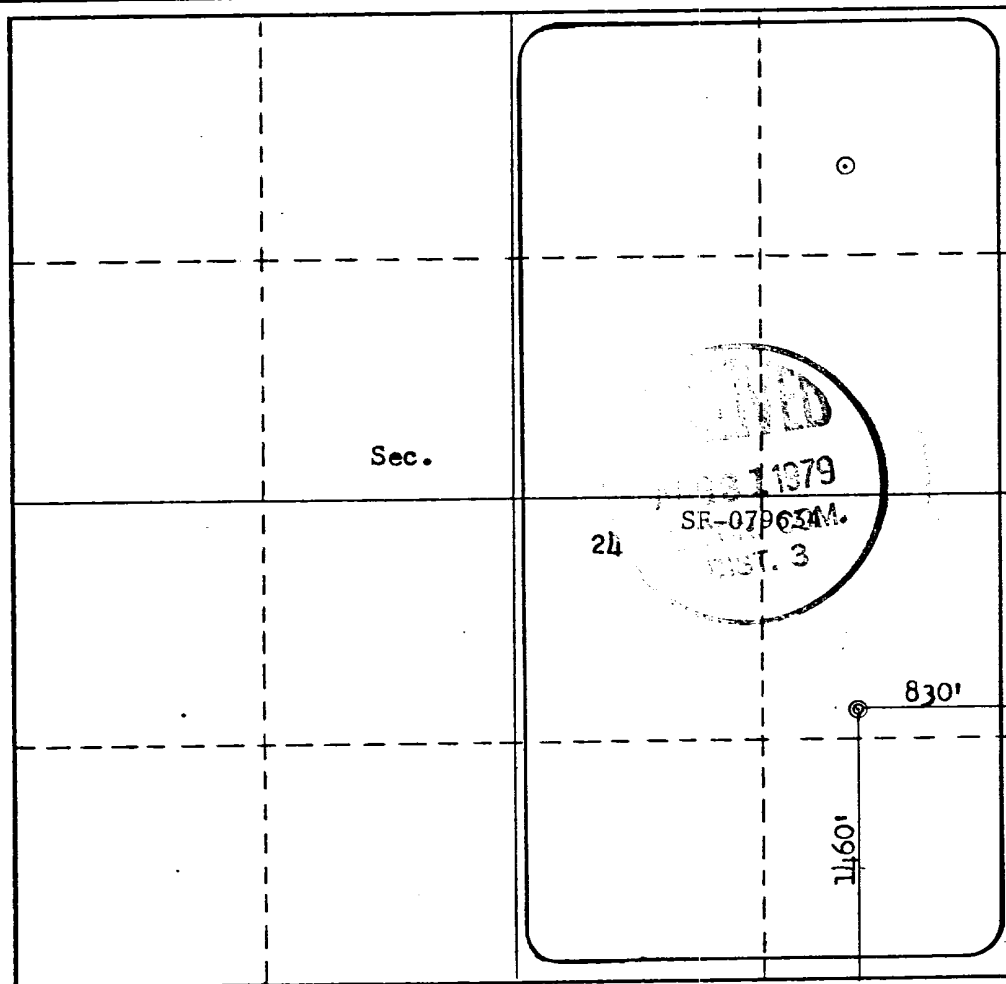
|   |                                      |                        |                             |  |                        |
|---|--------------------------------------|------------------------|-----------------------------|--|------------------------|
| Operator<br><b>SOUTHLAND ROYALTY COMPANY</b>  |                                      |                        | Lease<br><b>McCLANAHAN</b>  |  | Well No.<br><b>17E</b> |
| Unit Letter<br><b>I</b>   | Section<br><b>24</b>                 | Township<br><b>28N</b> | Range<br><b>10W</b>         | County<br><b>San Juan</b>              |                        |
| Actual Footage Location of Well:<br><b>1460</b> feet from the <b>South</b> line and <b>830</b> feet from the <b>East</b> line |                                      |                        |                             |  |                        |
| Ground Level Elev.<br><b>5883</b>   | Producing Formation<br><b>Dakota</b> |                        | Pool<br><b>Basin Dakota</b> | Dedicated Acreage:<br><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.

Name \_\_\_\_\_  
Position  
District Production Manager  
Company  
Southland Royalty Company  
Date  
August 23, 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 23, 1979  
Registered Professional Engineer  
and/or Land Surveyor  
Fred B. Kerr, Jr.  
Certificate No. MEXICO  
3950 B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



**Southland Royalty Company**

August 23, 1979

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

Attention:

Re: Blowout Preventer Plan

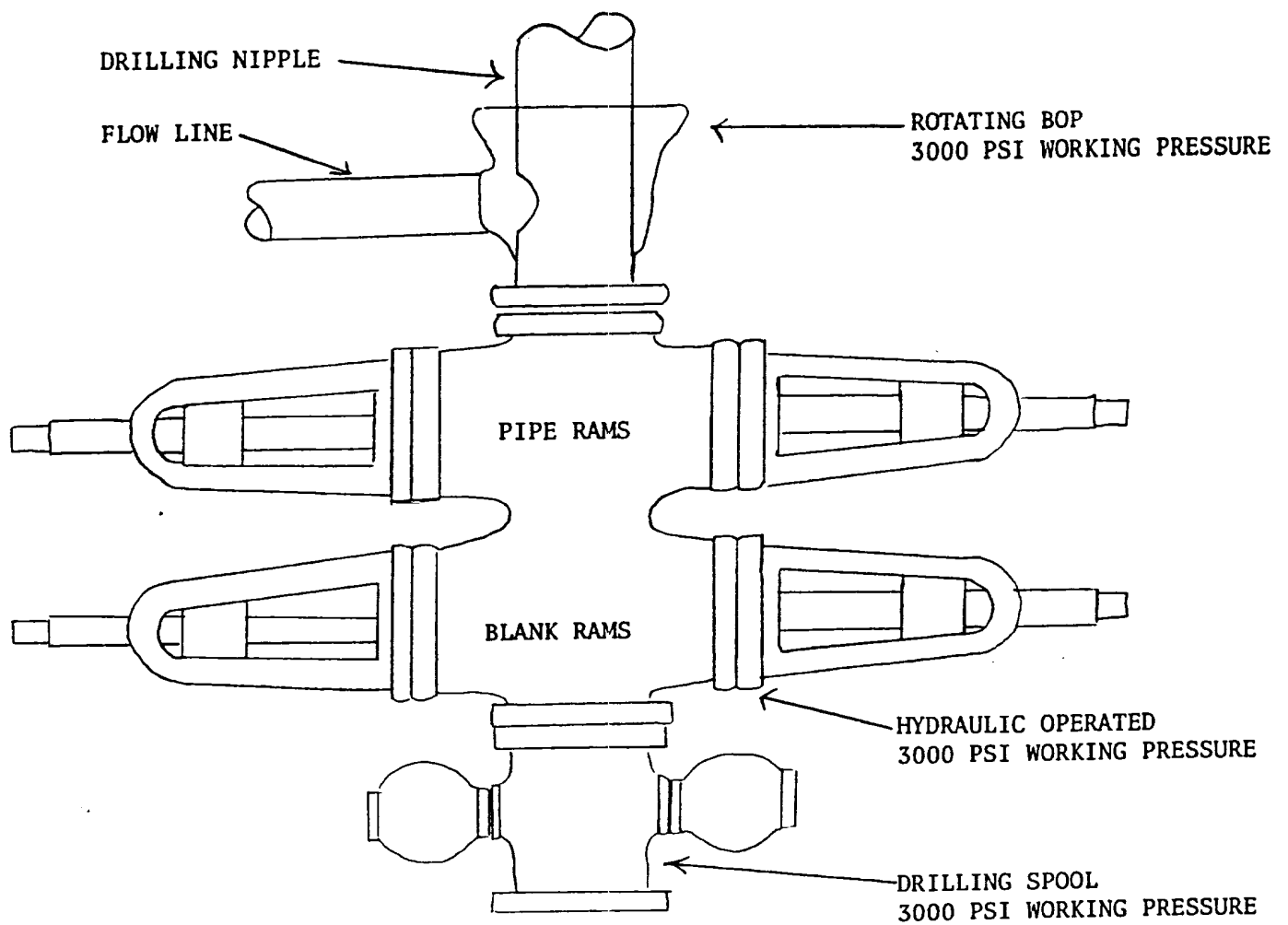
Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic 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,



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



**Southland Royalty Company**

August 23, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87410

Attention:

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's McClanahan #17E 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 air strips.

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

Water supply will be the San Juan River.

The location will be restored to the land owner's satisfaction. If this is not satisfactory, please have the Bureau of Land Management contact the land owner. This work will begin when all related construction is finished.

Mr. Max Larson 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**

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 23, 1979

Name: 

Title: District Production Manager

DRILLING SCHEDULE - McClanahan #17E

LOCATION: 1460' FSL & 830' FEL, Section 24, T28N, R10W, San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 5883' GR TD: 6590'

GEOLOGY:

Formation Tops:

|                 |       |             |       |
|-----------------|-------|-------------|-------|
| Ojo Alamo       | 895'  | Gallup      | 5495' |
| Fruitland       | 1725' | Graneros    | 6320' |
| Pictured Cliffs | 2020' | Dakota      | 6440' |
| Cliff House     | 3585' | Total Depth | 6590' |
| Point Lookout   | 4285' |             |       |

Logging Program: IES from TD to surface casing.  
GR-Density from TD to Cliff House

Coring Program: None

Natural Gauges: None

DRILLING:

Contractor:

Tool Pusher:

SRC Representative:

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

Mud Program: Fresh water mud to top of Point Lookout. Pretreat gel mud with 10% LCM. Maintain mud weight at 9.0 to 9.2, Vis to 35 sec, water loss at 12 to 15.

MATERIALS:

| Casing Program: | Hole Size | Depth | Casing Size | Wt. & Grade |
|-----------------|-----------|-------|-------------|-------------|
|                 | 12-1/4"   | 200'  | 8-5/8"      | 24# K-55    |
|                 | 7-7/8"    | 6590' | 5-1/2"      | 15.5# K-55  |

FLOAT EQUIPMENT:

8-5/8" Surface Casing: Pathfinder guide shoe.

5-1/2" Production Casing: Pathfinder guide shoe and Howco self-fill insert valve. Run 5 centralizers every other joint above shoe. Run Dowell stage tool at 4685' and 2220'. Run cement basket 1 joint below and 5 centralizers above each tool.

Wellhead Equipment: 8-5/8" X 10", 2000# Bradenhead with 5-1/2" casing hanger. 10" X 6", 2000# tubing head and tree.

DRILLING SCHEDULE - McClanahan #17E

PAGE TWO

CEMENTING PROGRAM:

8-5/8" surface casing: 140 sxs or 165 cu. ft. of Class "B" with 1/4# gel flake/sx and 3% CaCl. WOC for 12 hrs. Test to 600# prior to drilling out. (Volume is 100% Excess)

5-1/2" Production String: Stage 1: 216 sxs or 323 cu. ft. of 50/50 Poz with 6% gel, 1/4# gel flake/sx and 6% Halad 9 or equivalent. (70% Excess to cover Gallup.)

Stage 2: 217 sxs or 324 cu. ft. of same as Stage 1. (70% Excess to cover Cliff House.)

Stage 3: 176 sxs or 262 cu. ft. of 50/50 Poz with 6% gel followed by 70 sxs of Class "B" with 2% CaCl. If lost circulation occurred add 1/4# celloflakes per sack. (50% excess to cover Ojo Alamo.) Run temperature survey after 12 hours.

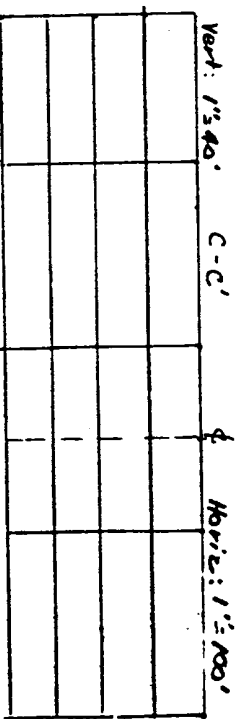
WOC & Circulate between stages as required by well conditions.



A hand-drawn diagram showing a straight line with an arrow pointing to the right, labeled with the letter 'z'. The line is drawn with a single stroke, and the arrow is a simple V-shape at the end. The label 'z' is written in a cursive style above the arrowhead.

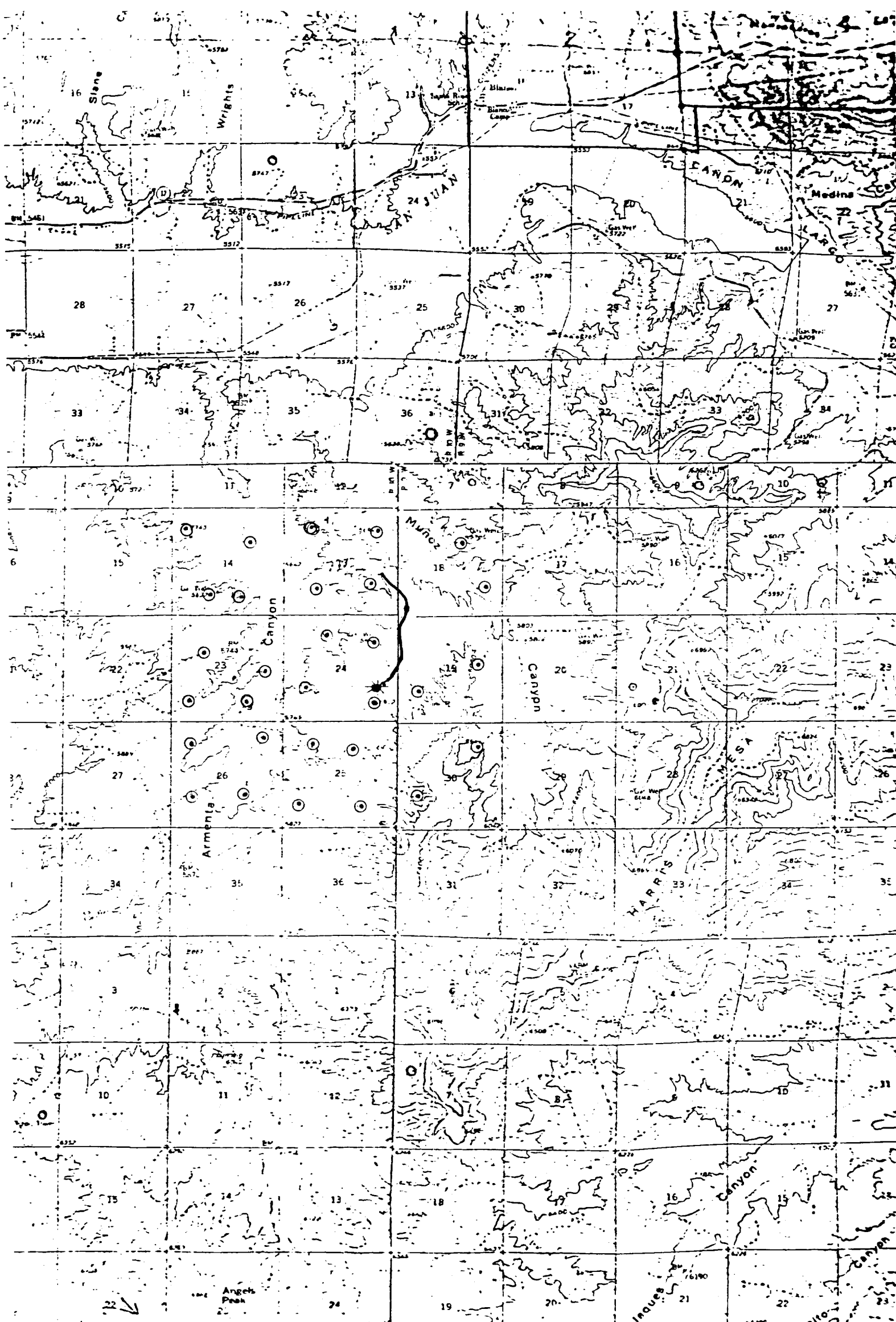
B-B'

|      |  |
|------|--|
| D-D' |  |
|------|--|



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KERR LAND SURVEYING  
Date: 8/1/79



Vicinity Map for  
 SOUTHLAND ROYALTY COMPANY #17E MCCLANAHAN  
 1460'FSL 830'FEL Sec 24-T28N-R10W  
 SAN JUAN COUNTY, NEW MEXICO