

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-046-23372

5. LEASE DESIGNATION AND SERIAL NO.

SF-077648

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Davis

9. WELL NO.

#18

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs-

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Section 11, T31N, R12W

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, New Mexico

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

At surface

1090' FNL &amp; 1100' FWL

At proposed prod. zone

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

6 miles Northwest of Aztec, New Mexico

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160/54.75

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

19. PROPOSED DEPTH

2979'

20. ROTARY OR CABLE TOOLS

Rotary

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

6219' GR

22. APPROX. DATE WORK WILL START\*

February 15, 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#	120'	99 cu. ft.
6-3/4"	2-7/8"	6.5#	2979'	449 cu. ft.

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1509'.

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 July 15, 1979. This depends  
on time required for approvals, 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 production 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 January 23, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*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.

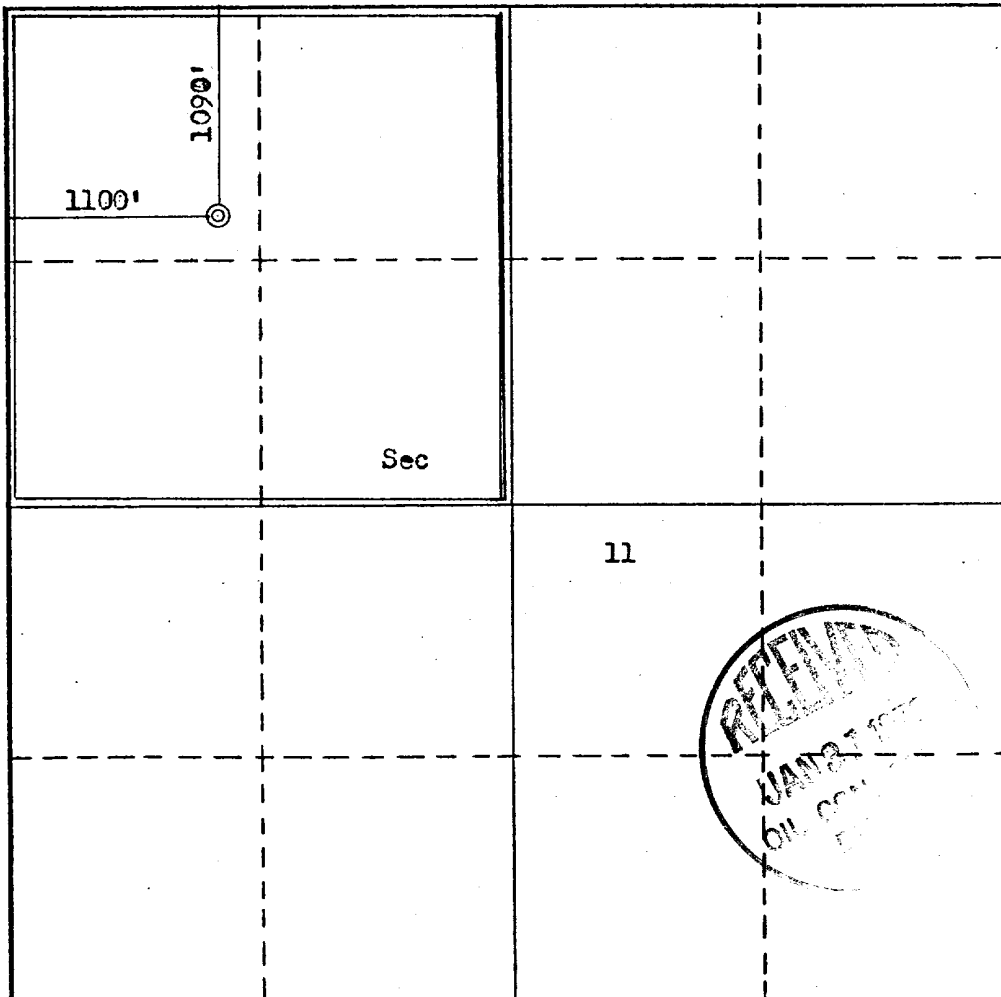
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>DAVIS</b>		Well No. <b>18</b>
Unit Letter <b>D</b>	Section <b>11</b>	Township <b>31N</b>	Range <b>12W</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>1090</b> feet from the <b>North</b> line and <b>1100</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6219</b>	Producing Formation <b>Pictured Cliffs</b>	Pool <b>Blanco</b>		Dedicated Acreage <b>160 154.75</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  
**January 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  
**January 8, 1979**  
 Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr Jr.*  
**Fred B. Kerr Jr.**

Certificate No.  
**3950**



**Southland Royalty Company**

January 23, 1979

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

Attention: Mr. P. T. McGrath

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Davis #18 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.

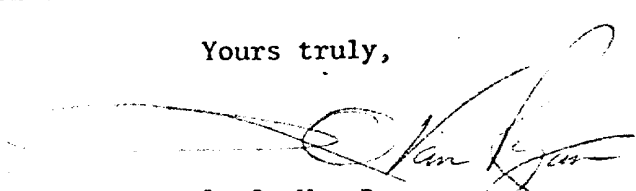
Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks and cut required to build this location.

Water supply will be the Farmer's Ditch. All water will be transported by truck and stored on location.

The location will be restored according to Bureau of Land Management standards. 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

## DRILLING SCHEDULE - DAVIS #18

Location: 1090' FNL & 1100' FWL, Section 11, T31N, R12W, San Juan County, New Mexico

Field Blanco Pictured Cliffs

Elevation: 6219' GR

### Geology:

Formation Tops:	Ojo Alamo	1509'
	Fruitland	2459'
	Pictured Cliffs	2799'
	Total depth	2979'

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

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 from surface to total depth.

### Materials

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade	
	12-1/4"	120'	8-5/8"	24#	K-55
	6-3/4"	2979'	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 1 2-7/8" Omega latching plug (Pr. Ref. 59) Use 3-1/4" plug container head. Six B & W stabilizers on bottom 6 joints.

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

DRILLING SCHEDULE - DAVIS #18

Cementing

8-5/8" Surface Casing:  $\frac{99}{\text{flake per sx and 3\% CaCl}_2}$  cu. ft. ( $\frac{85}{\text{sxs}}$ ) Class "B" with 1/4# gel (100% excess)

2-7/8" Production Casing:  $\frac{449}{\text{weigh 12.85 ppg. Tail in with 50 sxs Class "B" with 2\% CaCl}_2}$  cu. ft. ( $\frac{262}{\text{If lost circulation occurs add 1/4 cu. ft. fine gilsonite per sack. (50\% excess to cover Ojo Alamo)}}$ ) of 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sx to



**Southland Royalty Company**

January 23, 1979

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

Attention: Mr. P. T. McGrath

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.

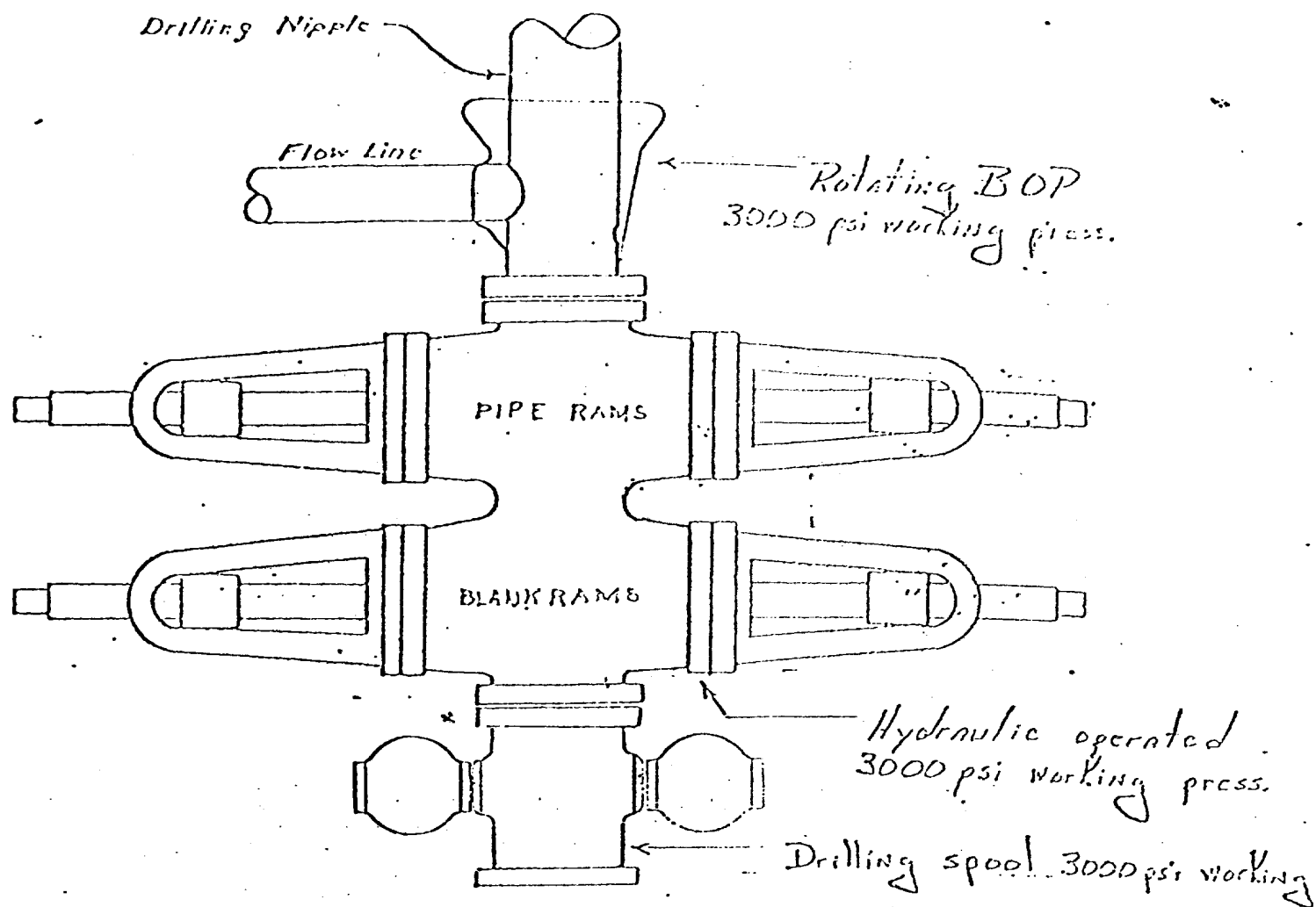
The preventer is 3000# working pressure and 6000# test.

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 6" - 3000# PSI or larger.



**Southland Royalty Company**

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

Attention: Mr. P. T. McGrath

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.

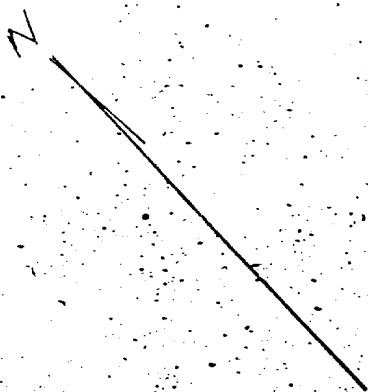
Date: January 23, 1979

Name: 

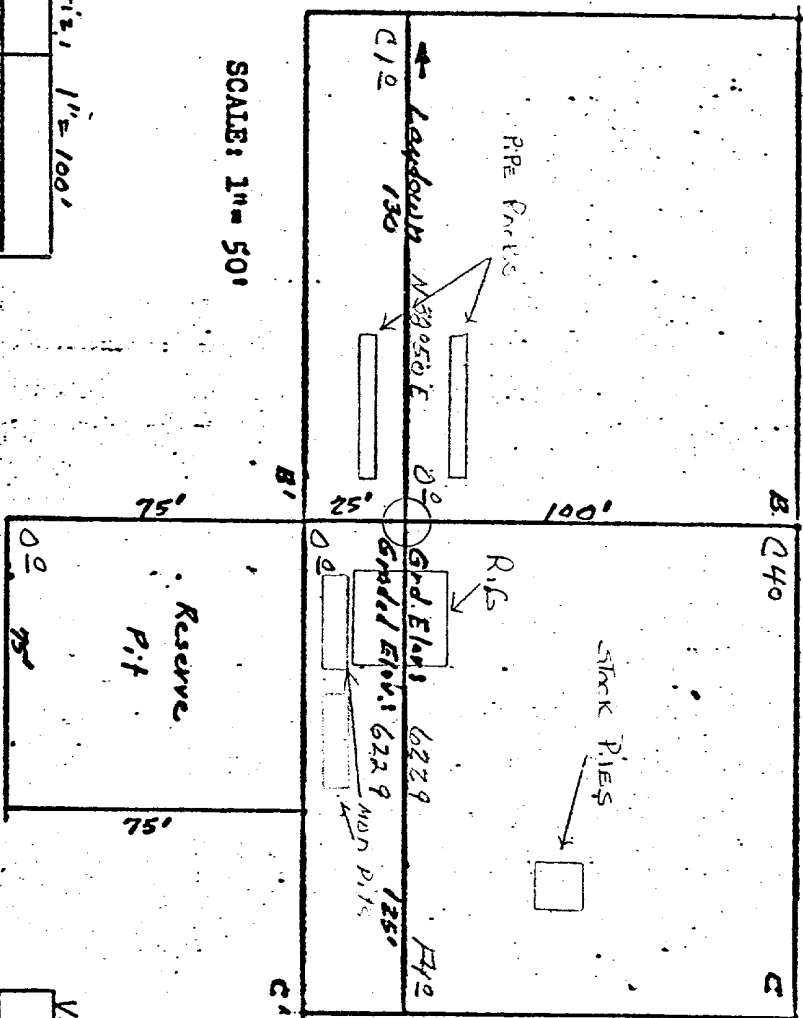
Title: District Production Manager



Location Profile for  
SOUTHLAND ROYALTY CO. #18 DAVIS  
1090' FNL 1100' FWL Sec 11-T31N-R12W  
San Juan County, New Mexico



SCALE: 1" = 50'



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

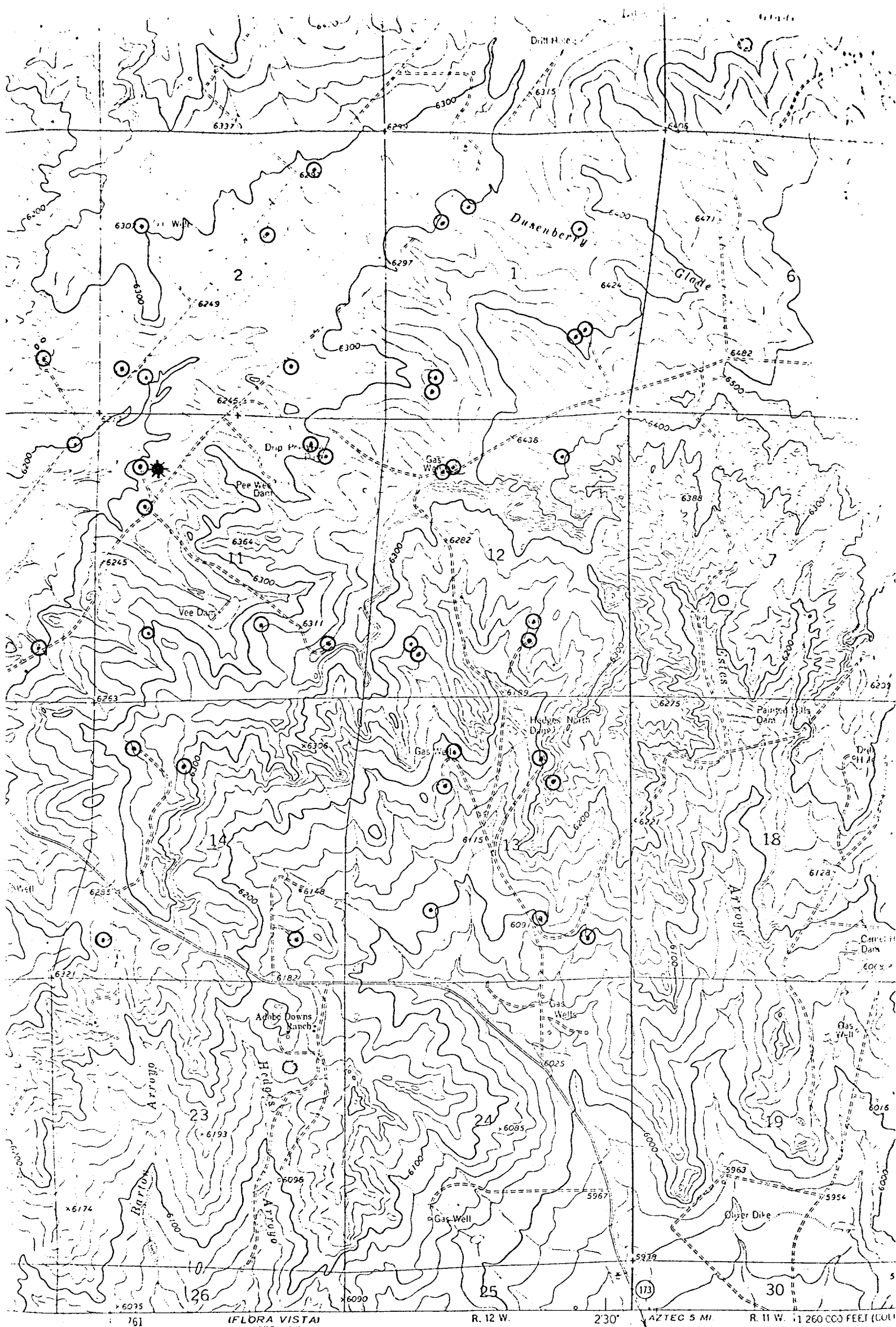
6240					
6230					
6220					





B-B'      &

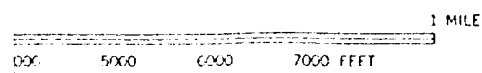
6240					
6230					
6220					

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


D-D'      &

PROPOSED LOCATION   
 EXISTING LOCATIONS   
 PROPOSED ROADS   
 EXISTING ROADS 



Vicinity Map for  
 SOUTHLAND ROYALTY CO. #18 DAVIS  
 1090'FNL 1100'FWL Sec 11-T31N-R12W  
 SAN JUAN COUNTY, NEW MEXICO