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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-24675-

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> 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"/>		8. Farm or Lease Name Harper	
2. Name of Operator Southland Royalty Company		9. Well No. #3	
3. Address of Operator P. O. Drawer 570, Farmington, NM 87401		10. Field and Pool, or Wildcat. Blanco Pictured Cliffs Undesignated Fruitland	
4. Location of Well UNIT LETTER <u>P</u> LOCATED <u>970'</u> FEET FROM THE <u>South</u> LINE AND <u>1090'</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>14</u> TWP. <u>31N</u> RGE. <u>12W</u> NMPM		11. Section, Township, Range, Meridian <u>156.96 + 156.96</u>	
		12. County San Juan	
		19. Proposed Depth 2920'	
		19A. Formation PC/Frtlnd	
		20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 6178' GR		21A. Kind & Status Plug. Bond	
		21B. Drilling Contractor Four Corners Drilling	
		22. Approx. Date Work will start Decemeber 15, 1980	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	9 5/8"	32.30#	130'	70 sx	Surface
8 3/4"	2 7/8"	6.5#	2650'		
6 3/4"	2 7/8"	6.5#	2920'	570 sx	

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1228'.

Top of Pictured Cliffs sand is at 2699'.

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 March 31, 1981. This depends on time required for approvals, rig availability and the weather.

Gas is dedicated.

**APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,**

EXPIRES 2-11-81

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed P. E. Fitch Title District Engineer Date 11-11-80

(This space for State Use)

Original Signed by **CHARLES GHOLSON**

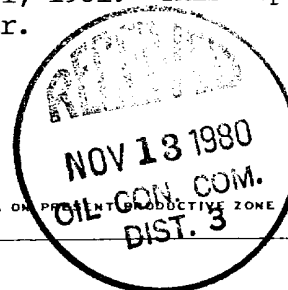
DEPUTY OIL & GAS INSPECTOR, DIST. #3

NOV 13 1980

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Write New



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

Operator SOUTHLAND ROYALTY COMPANY			Lease HARPER		Well No. 3
Unit Letter P	Section 14	Township 31N	Range 12W	County San Juan	
Actual Footage Location of Well: 970 feet from the South line and 1090 feet from the East line					
Ground Level Elev. 6178	Producing Formation Pictured Cliffs-Fruitland		Pool Blanco - Undesignated		Dedicated Acreage: 160.156.96 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

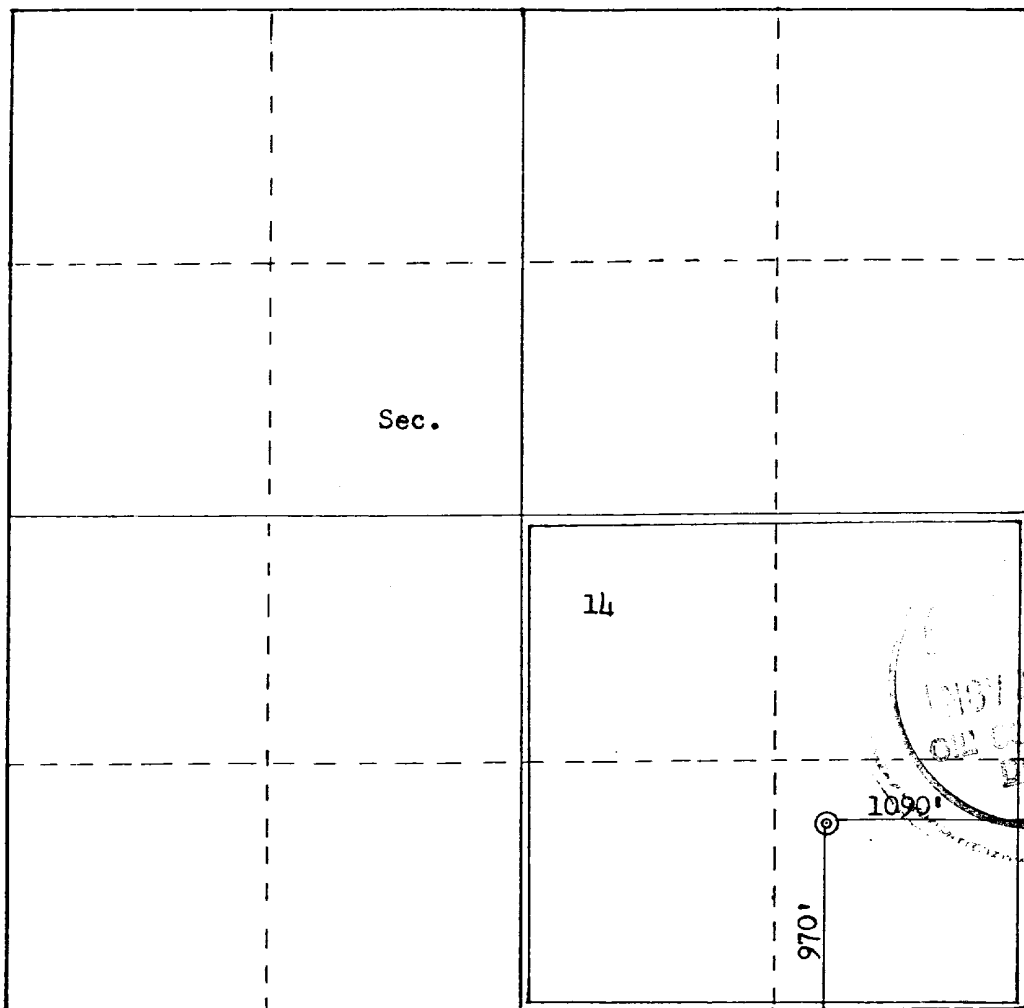
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.



Scale: 1"=1000'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>R. E. Fielder</i>	
Name	Robert E. Fielder
Position	District Engineer
Company	Southland Royalty Company
Date	October 8, 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	September 24, 1980
Registered Professional Engineer and Land Surveyor	
<i>Fred B. Kerr Jr.</i>	
Certificate No.	3950

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

H A R P E R # 3

970' FSL & 1090' FEL

Sec. 14, T31N, R12W

San Juan County, NM

Field: Blanco Pictured Cliffs/Undesignated Fruitland

Elevation: 6178' GR

Geology: Formation Tops -

Ojo Alamo	1228'
Fruitland	2327'
Pictured Cliffs	2699'
Total Depth	2920'

Logging Program: IES and GR-Density at Total Depth.

Coring Program: None

Natural Gauges: None

Drilling:

Contractor:

Tool Pusher:

SRC Answ. Svc: 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 & Grade</u>
12 1/4"	130'	9 5/8"	32.30#K-55
8 3/4"	2650'	2 7/8"	6.5# K-55
6 3/4"	2920'	2 7/8"	6.5# K-55

Float Equipment:

9 5/8" Surface Casing: B & W cement guide shoe.

2 7/8" Production Casing: Long String - notched collar guide shoe. Howco 2-7/8" latch down baffle. Two 3-1/16" rubber balls and one 2-7/8" Omega latching plug. Use a 3-1/4" plug container head. Use six B & W stabilizers on bottom six joints.

Short String - expendable check on bottom. Run six B & W centralizers on on each of the bottom six joints. One 3-1/16" rubber ball.

Wellhead Equipment: 9 5/8" X 2 7/8" X 2 7/8", EUE, screwed head

Cementing:

9 5/8" Surface Casing: 70 sacks (83 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl_2 . (100% excess.)

2 7/8" Production Casing: After running short string and prior to cementing, Circulate thru short string with water. Pump down a 3-1/16" rubber ball and displace with 100 gals. of acetic acid. Then cement thru long string with 365 sacks (548 cu. ft.) of Class "B", 50/50 Poz with 6% gel. Tail in with 205 sacks (242 cu. ft.).

If lost circulation occurs while drilling, add 1/4# per sack of fine gilsonite. Volume is 50% excess of gauge hole to cover Ojo Alamo.

Dispalce cement with 50 gallons of acetic acid. Run temperature survey after 12 hours.

L. O. Van Ryan
District Production Manager

JAC/ke



Southland Royalty Company

November 11, 1980

Oil Conservation Division
Mr. Frank Chavez
1000 Rio Brazos Road
Aztec, NM 87410

RE: Blowout Preventer Plan

Dear Mr. Chavez:


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 pressure.

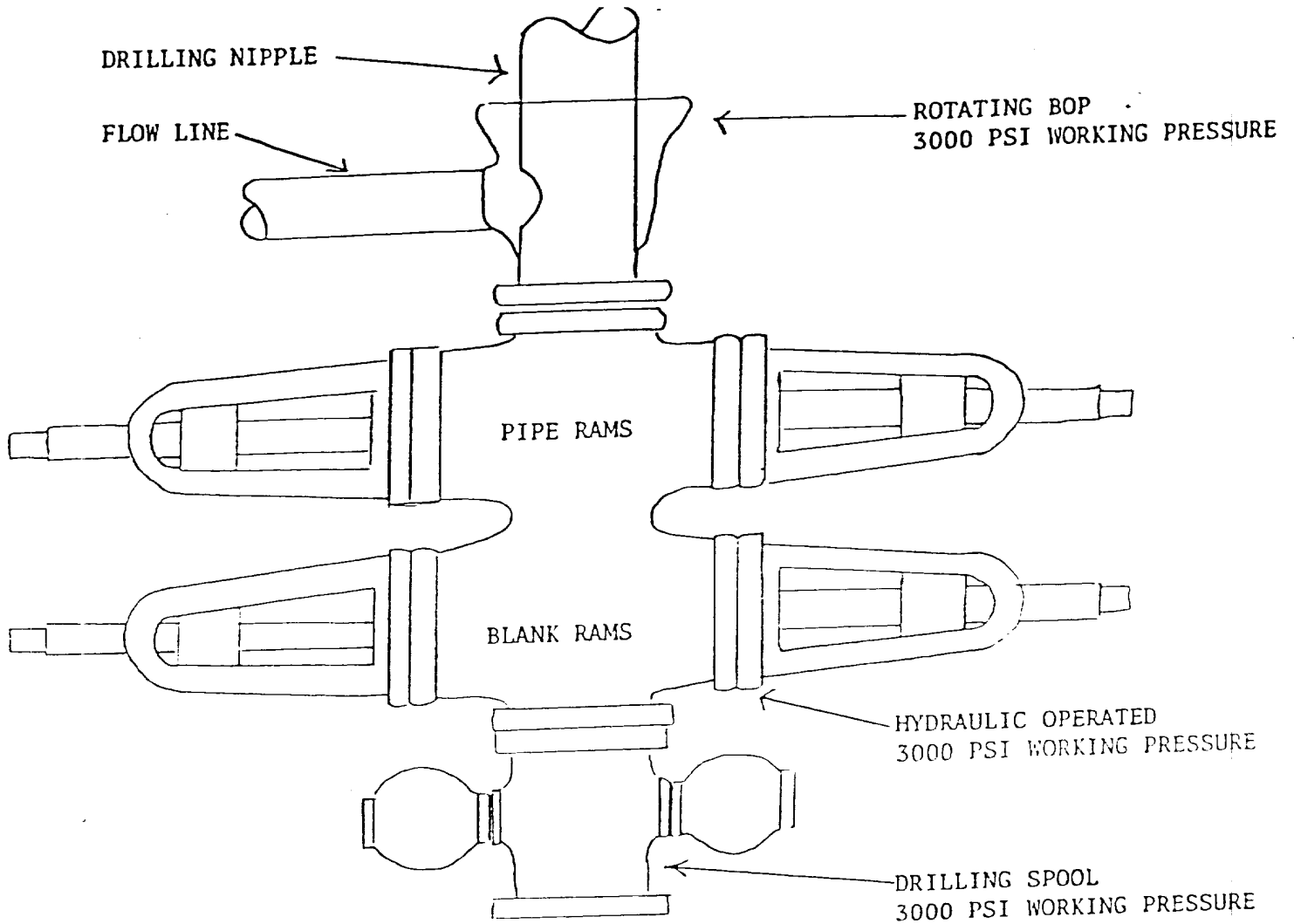
All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to ensure proper operation.

Sincerely,

SOUTHLAND ROYALTY COMPANY


Robert E. Fielder
District Engineer

Southland Royalty Company
Harper #3
Section 14, T31N, R12W
San Juan County, NM



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

THE UNDERSIGNED, for and in consideration of the amount shown below, the receipt of which is hereby acknowledged, releases Southland Royalty Company, its agents, contractors and employees, from all claims of any kind or character for damages sustained by the undersigned caused by the construction of a roadway and location for use in drilling and operating gas or oil wells in the vicinity, or the project named below, with appurtenances thereto, over and through the hereinafter described property.

The undersigned represents that he is legally entitled to possess and occupy the surface of said property and is, therefore, entitled to receive payment for the damages sustained thereto.

DESCRIPTION OF PROPERTY SITUATED IN SAN JUAN COUNTY,
STATE OF NEW MEXICO.

<u>Subdivision</u>	<u>Section</u>	<u>Township</u>	<u>Range or Block</u>	<u>B & M or Abstract</u>
SE/SE	14	31N	12W	

Received of Southland Royalty Company the amount of \$ \$425.00.

DATED THIS 13 DAY OF June, 19 80 AD

WITNESS

Check Number 44828

Well Name HARPER #3

AFE Number 044V

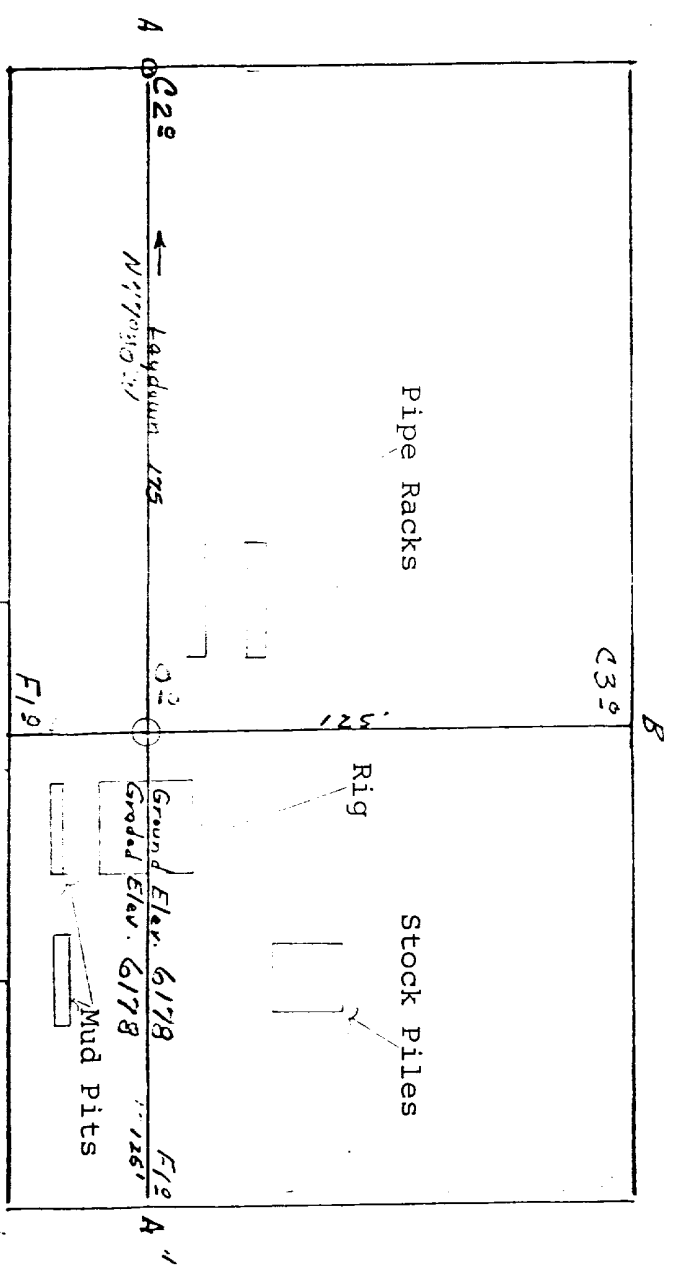
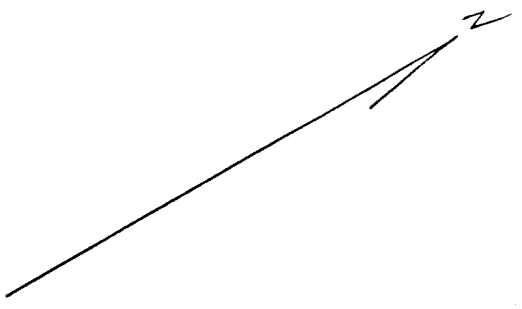
Maria Harper
SIGNED

Star Rt 1053 County Rd 524

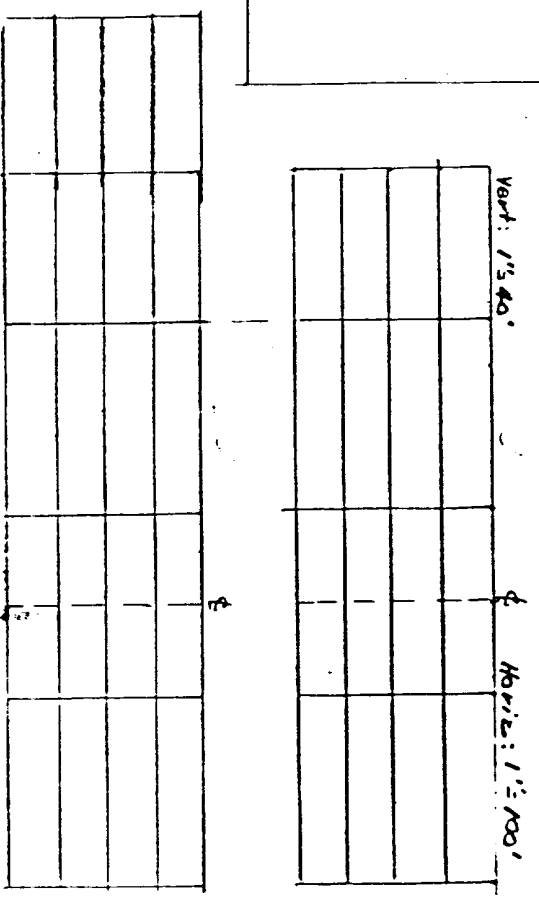
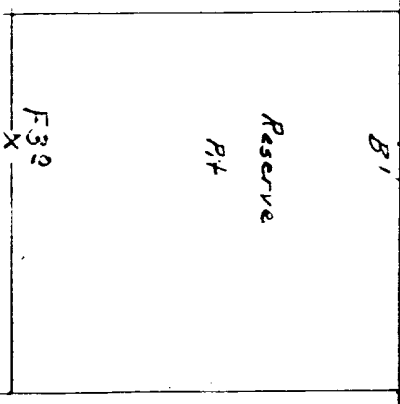
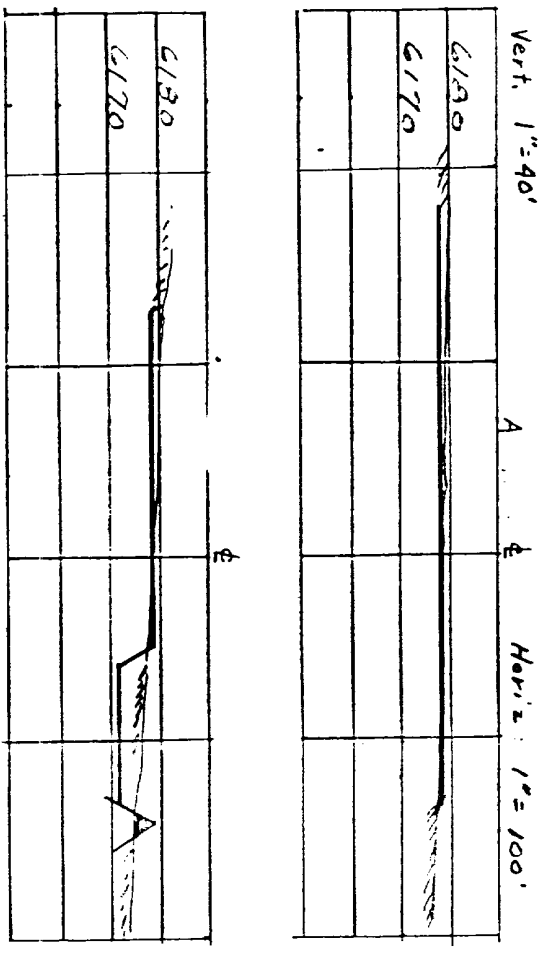
Bayfield Colo 81122

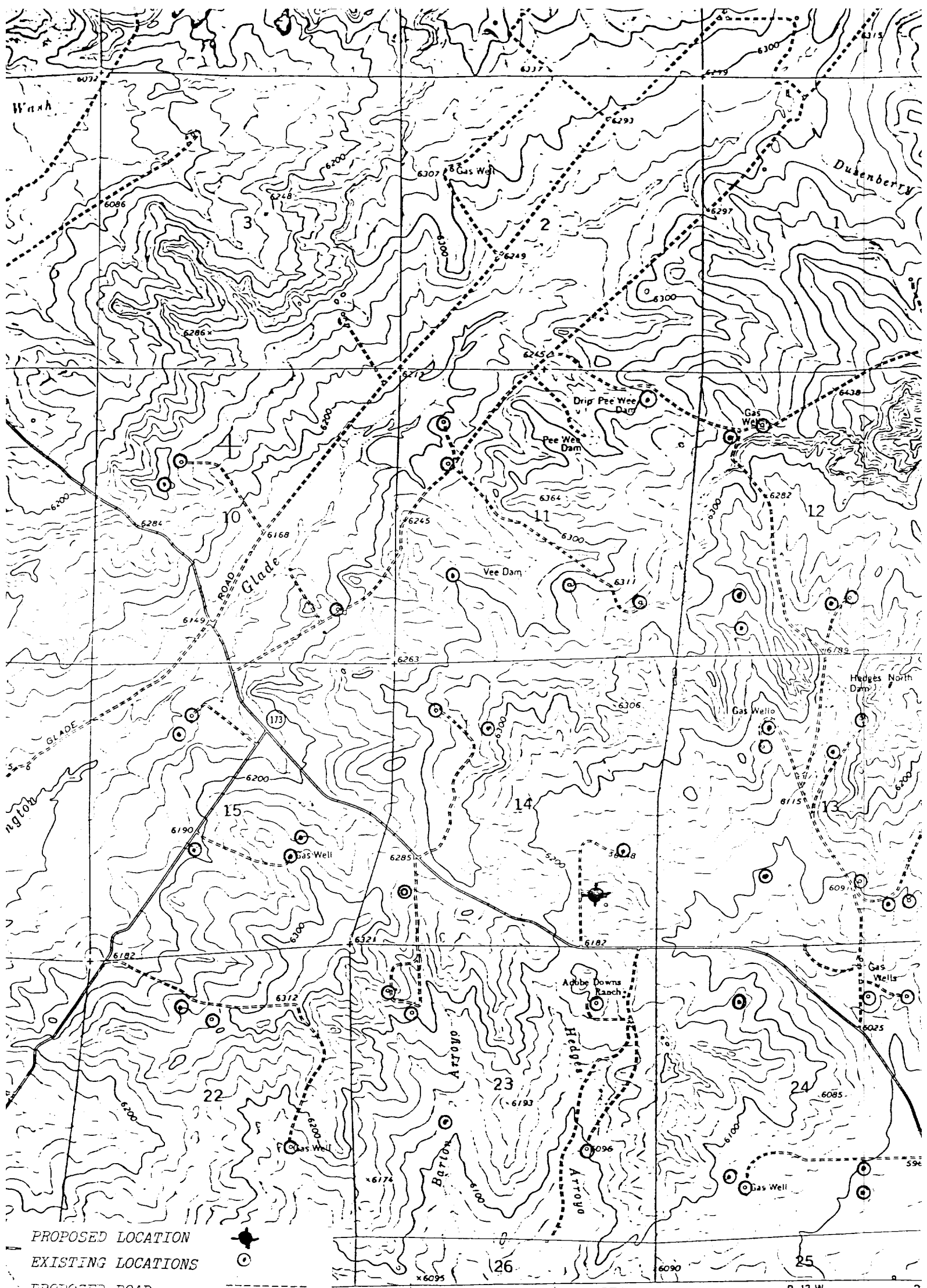
LOVR/dg

Profile for
 Southland Royalty Company #3 Harper
 970' FSL 1090' FEL Sec. 14-T31N-R12W
 San Juan County, New Mexico



Scale: 1"=50'

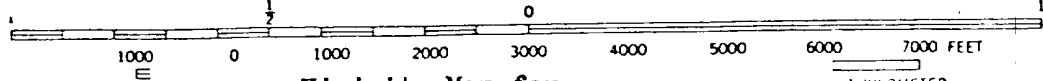




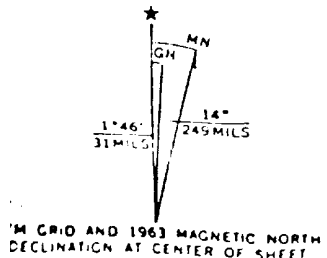
PROPOSED LOCATION
EXISTING LOCATIONS
PROPOSED ROAD
EXISTING ROADS

IFLORA VISTA
4357 1 SE
SCALE 1:24 000

R. 12 W. 2



Vicinity Map for
SOUTHLAND ROYALTY COMPANY #3 HARPER
970° FSL 1090° FEL Sec. 14-T31N-R12W
SAN JUAN COUNTY, NEW MEXICO



CONFORMS TO NATIONAL MAP ACCURACY STANDARDS