

30-045-23353

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. SF-078146
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Southland Royalty Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Drawer 570, Farmington, New Mexico			8. FARM OR LEASE NAME Hillstrom
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1010' FSL & 1180' FWL At proposed prod. zone			9. WELL NO. #2
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles northwest of Aztec, New Mexico			10. FIELD AND POOL OR WILDCAT Aztec Pictured Cliffs
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)			11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA Section 35, T32N, R12W
16. NO. OF ACRES IN LEASE			12. COUNTY OR PARISH 13. STATE San Juan New Mexico
17. NO. OF ACRES ASSIGNED TO THIS WELL 160			18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
19. PROPOSED DEPTH 3067'			20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6425' GR			22. APPROX. DATE WORK WILL START* January 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#	3067'	424 cu. ft.

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 1677'.

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

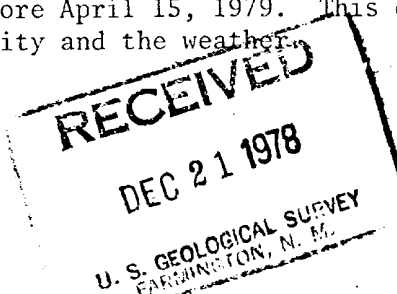
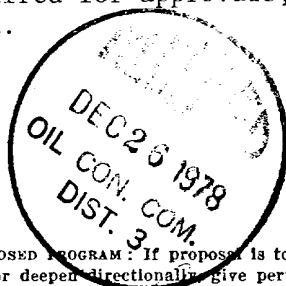
It is anticipated that an IES and a GR-Density log will be run at total depth.

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

It is expected that this well will be drilled before April 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 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 [Signature] TITLE District Production Manager DATE December 18, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

**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.

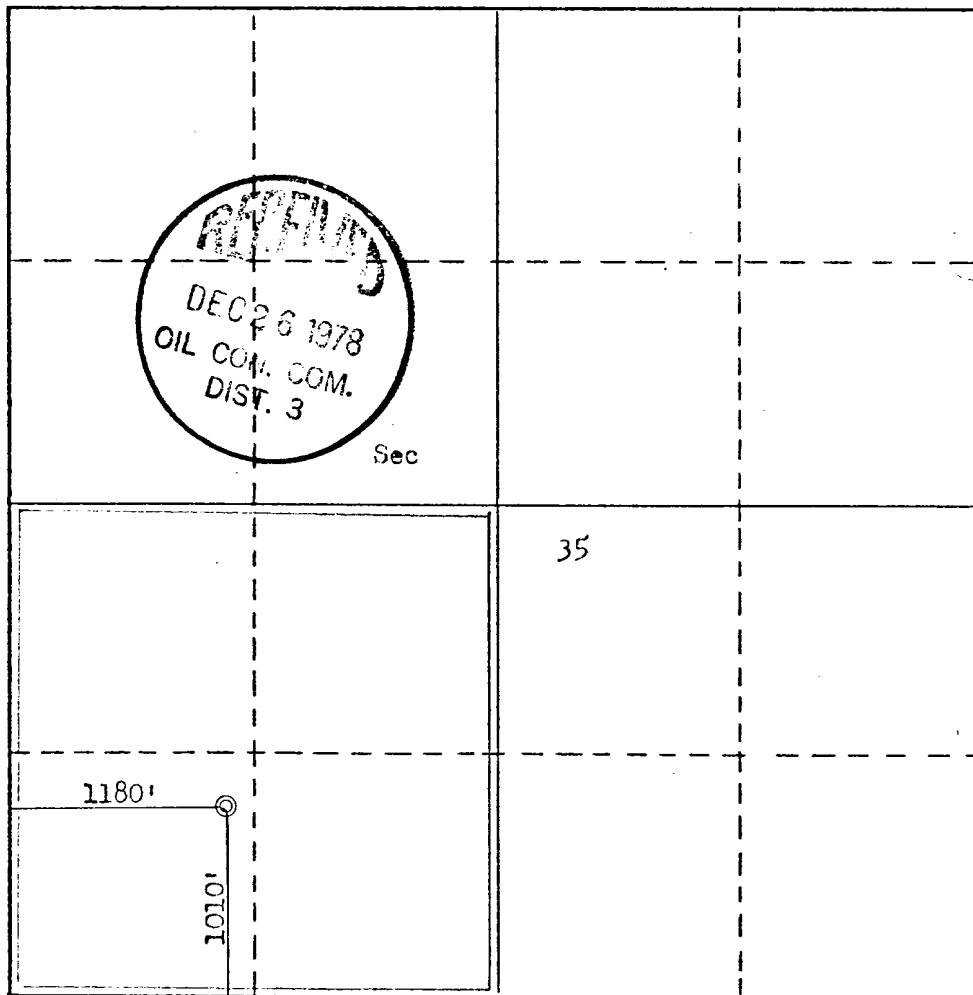
Operator SOUTHLAND ROYALTY COMPANY			Lease HILLSTROM		Well No. 2
Unit Letter M	Section 35	Township 32N	Range 12W	County San Juan	
Actual Footage Location of Well: 1010 feet from the South line and 1180 feet from the West line					
Ground Level Elev. 6425	Producing Formation Pictured Cliffs	Pool Blanco Aztec Blanco		Dedicated Acreage: 160 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
December 18, 1978

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
November 17, 1978
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 3950

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

DRILLING SCHEDULE - HILLSTROM #2

Location: 1010' FSL & 1180' FWL, Section 35, T32N, R12W, San Juan County, New Mexico

Field Blanco Pictured Cliffs

Elevation: 6425' GR

Geology:

Formation Tops:	Ojo Alamo	1677'
	Fruitland	2442'
	Pictured Cliffs	2887'
	Total depth	3067'

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"	3067'	2-7/8"	6.5#	K-55

Cementing

8-5/8" Surface Casing: 99 cu. ft. (85 sxs) Class "B" with 1/4# gel flake per sx and 3% CaCl₂. (100% excess)

2-7/8" Production Casing: 424 cu. ft. (245 sxs) of 50/50 Class "B" Poz with 6% gel mixed with 7.2 gals water per sx to weigh 12.85 ppg. Tail in with 50 sxs Class "B" with 2% CaCl₂. If lost circulation occurs add 1/4 cu. ft. fine gilsonite per sack. (50% excess to cover Ojo Alamo)





Southland Royalty Company

December 18, 1978

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

Attention: Mr. P. T. McGrath

Re: Blowout Preventer Plan

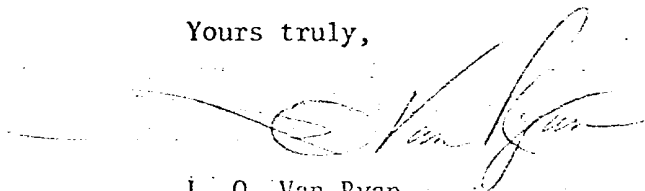
Dear Sir:

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.

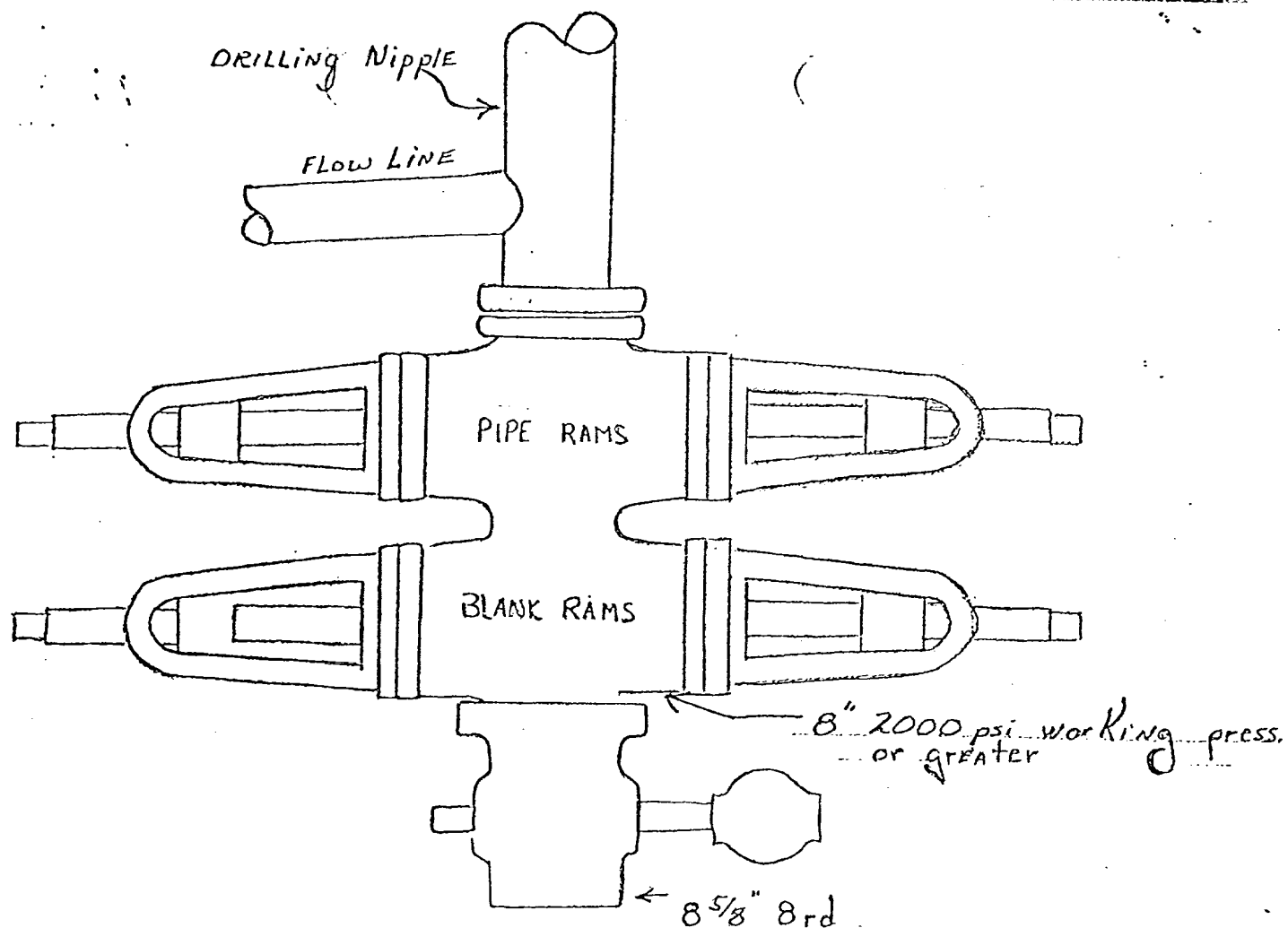
All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Yours truly,


L. O. Van Ryan
District Production Manager

LOVR/dg





Preventers and spools are to have
through bore of 8" - 2000# or larger.



Southland Royalty Company

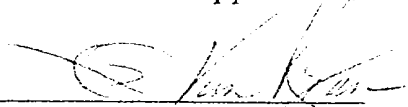
United States Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

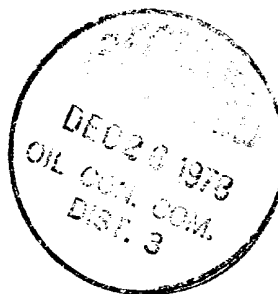
Dear Sir:

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: December 18, 1978

Name: 

Title: District Production Manager





Southland Royalty Company

December 18, 1978

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

Attention: Mr. P. T. McGrath

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Hillstrom #2 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 location layout showing approximate location of rig, pits and pipe racks.

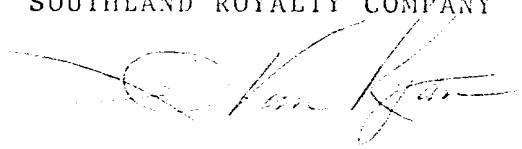
Water supply will be Farmer's Ditch.

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,

SOUTHLAND ROYALTY COMPANY

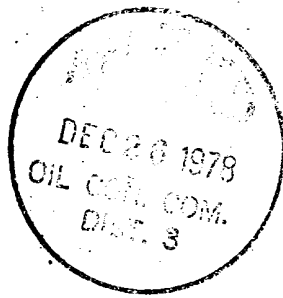

L. O. Van Ryan
District Production Manager

LOVR/dg

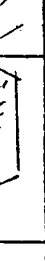
Location Profile for
SOUTHLAND ROYALTY CO. #2 HILLSTROM
1010'FSL 1180'FSL Sec 35-T32N-R12W San Juan County, New Mexico

SOUTHLAND ROYALTY CO. #2 HILLSTROM

1010' FSL 1180' FWL Sec 35-T32N-R12W San Juan County, New Mexico



Vert: 1"=40'	A-A'	to	Horiz: 1"=100'
6430			
6420			
6410			

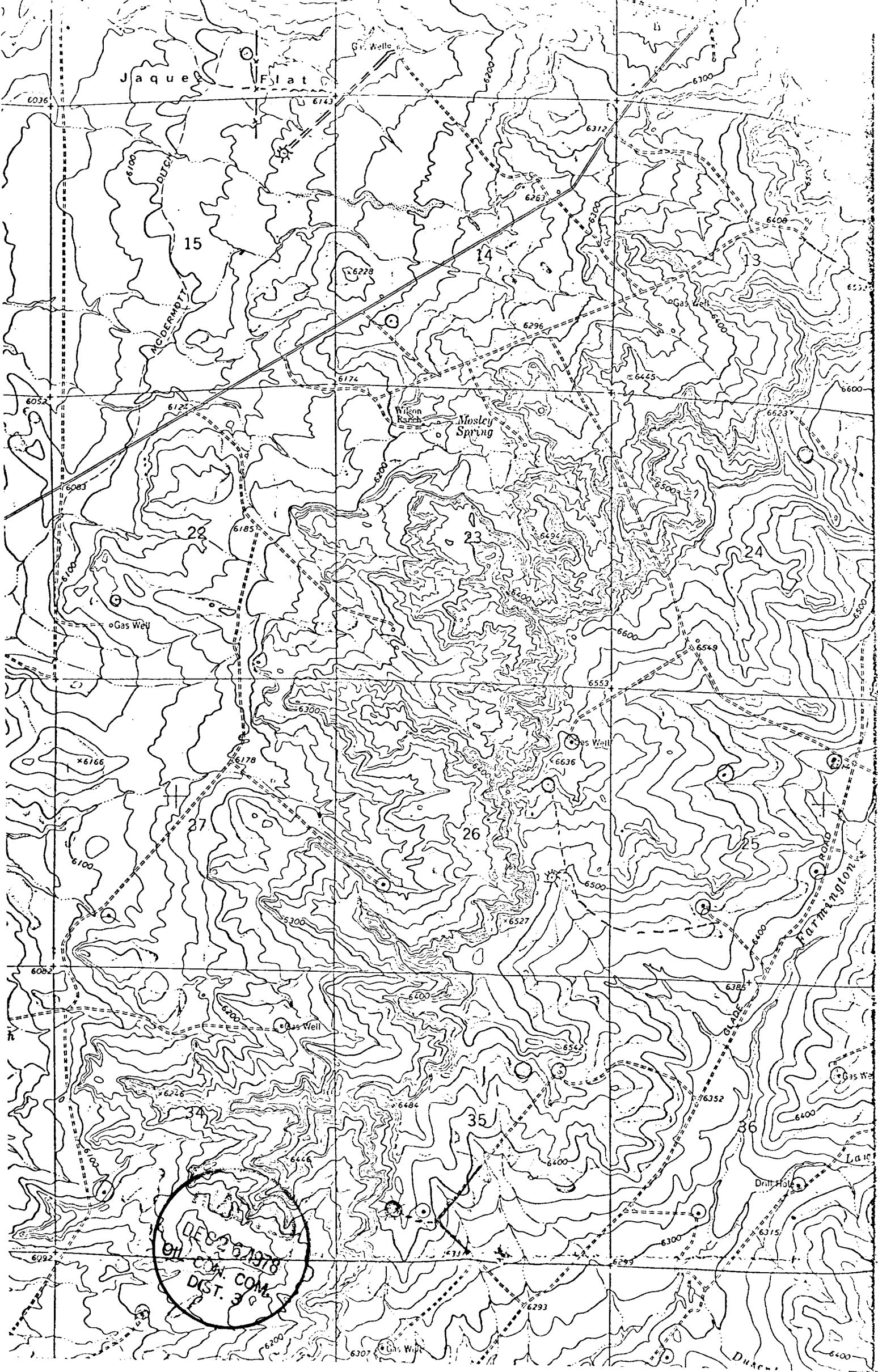
B-81	4						
6430							
6420							
6410							

Vent: 1"=40'	C-C'		&	HORIZ: 1"=100'
			-	
			-	
			-	
			-	

$D-D'$	d		

KERR LAND SURVEYING

Date: 11-18-73



Victrola Motor
301 N. LAO ROAD, ST. #2 MILBURN
1010' TEL 1130' TEL Dec 35-132-412w
SAN JUAN COUNTY, NEW MEXICO

