

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 1550' FNL & 980' FWL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
1 miles West of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 980'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 760'

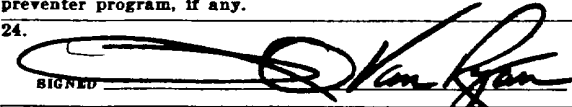
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5583' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.30#	200'	110 sxs (130 cu. ft.)
7-7/8"	5-1/2"	15.50#	6450'	219 sxs (327 cu. ft.) 1st Stage
	2-3/8"	4.7#	6500'	201 sxs (299 cu. ft.) 2nd Stage
				199 sxs (192 cu. ft.) 3rd Stage

Surface formation is Nacimiento.
Top of Ojo Alamo sand is at 745'.
Top of Pictured Cliffs sand is at 1715'.
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 November 31, 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.  District Production Manager August 20, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

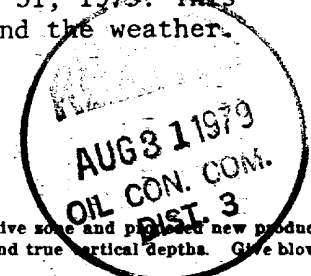
CONDITIONS OF APPROVAL, IF ANY:

ok Frank

WYMOCC

*See Instructions On Reverse Side

30-045-23671
5. LEASE DESIGNATION AND SERIAL NO.
SF-077056
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Cozzens "C"
9. WELL NO.
#1E
10. FIELD AND POOL, OR WILDCAT
Basin Dakota
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Section 20-T29N-R11W
12. COUNTY OR PARISH
San Juan
13. STATE
New Mexico



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

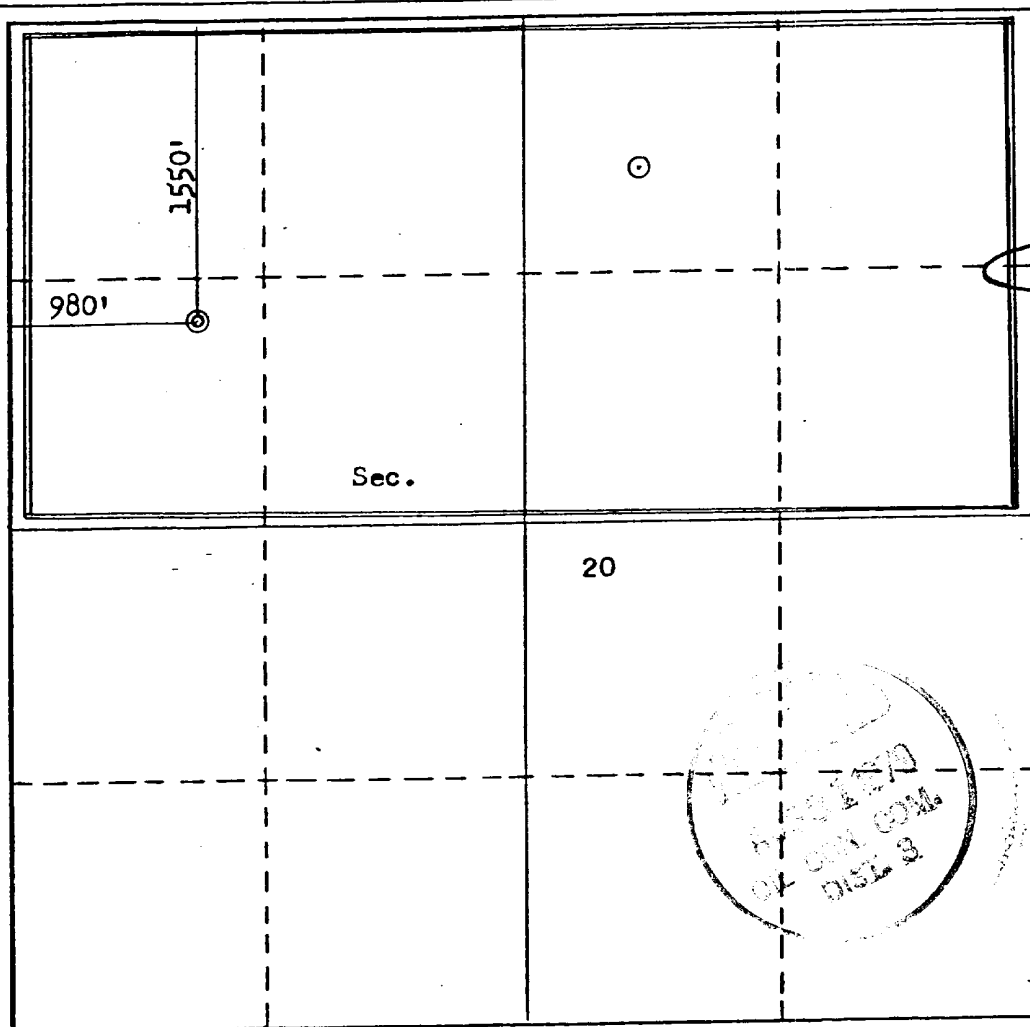
Operator SOUTHLAND ROYALTY COMPANY			Lease COZZENS "C"		Well No. 1E
Unit Letter E	Section 20	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1550 feet from the North line and 980 feet from the West line					
Ground Level Elev. 5583	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 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.



CERTIFICATION

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

Position
District Production Manager

Company
Southland Royalty Company

Date
July 17, 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
June 26, 1979
Registered Professional Engineer
and/or Land Surveyor

Certificate No.
3950



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 20, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

August 20, 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.

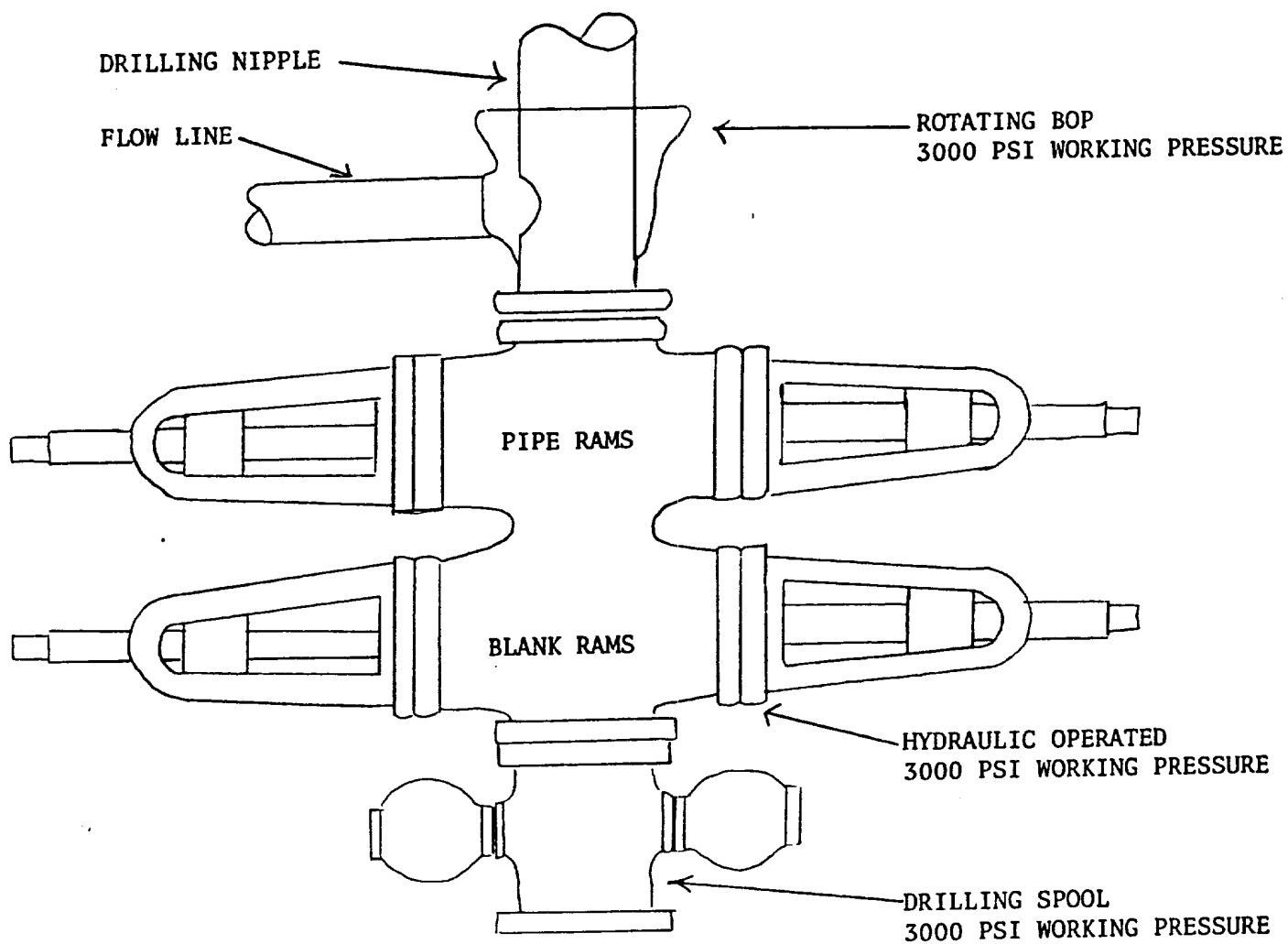
The preventer is 3000# working pressure and 6000# test.

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,

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

August 20, 1979

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

Attention: Mr. Gene Daniels

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Cozzens "C" #1E 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 an irrigation ditch off the San Juan River.

We have contacted the land owner and will restore surface to their 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. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

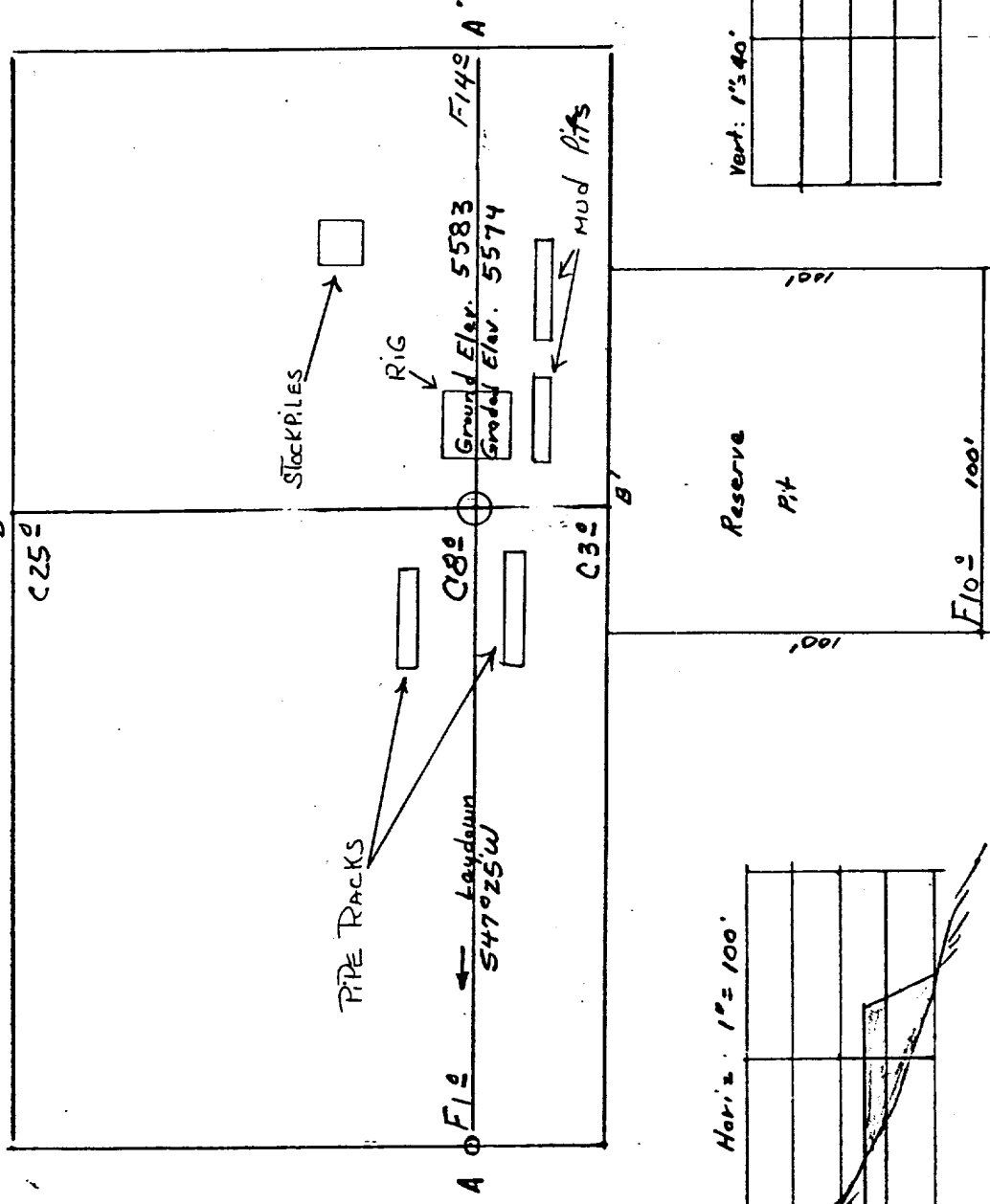
Yours truly,

L. O. Van Ryan
District Production Manager

LOVR/dfg

SOUTHLAND ROYALTY COMPANY #LE COZZENS "C"
1550'FNL 980'FWL Sec 20-T29N-R11W SAN JUAN COUNTY, NEW MEXICO

1550'FNL 980'FWL Sec 20-T29N-R11W SAN JUAN COUNTY, NEW MEXICO



Vert. $1'' = 40'$ Horiz. $1'' = 100'$

[illegible]

8-B, 1-φ

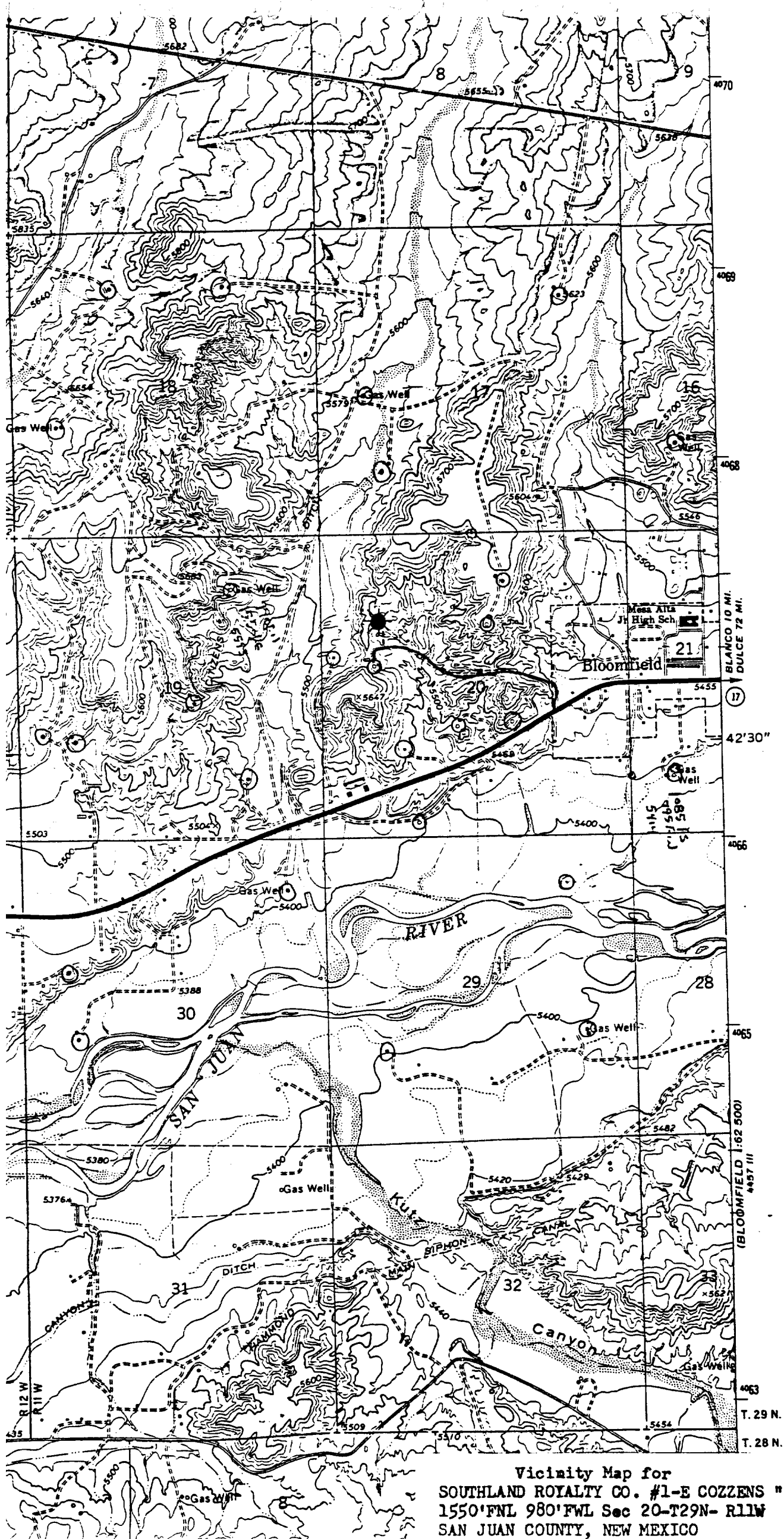
Vert: 1" dia. C-C'

D-D'

[illegible]

KERR LAND SURVEYING

Date:



Vicinity Map for
 SOUTHLAND ROYALTY CO. #1-E COZZENS "C"
 1550'FWL 980'FWL Sec 20-T29N- R11W
 SAN JUAN COUNTY, NEW MEXICO

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

C O Z Z E N S " C " # 1 E

Location: NW/4, Section 20, T29N, R11W, San Juan County, New Mexico

Field: Basin Dakota

Elevation: 5620' GR

Geology: Formation Tops

Ojo Alamo	745'	Pt. Lookout	4070'
Fruitland	1470'	Gallup	5340'
Pictured Cliffs	1715'	Graneros	6135'
Cliff House	3285'	Dakota	6235'
		Total Depth	6450'

Logging Program: IES and Gr-Density from surface to Total Depth.

Drilling: Contractor -
SRC Rep. -

Tool Pusher -
SRC Answ Svc: 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"	200'	9 5/8"	32.3# H-40
7 7/8"	6450'	5 1/2"	15.5# K-55

Surface Casing: Pathfinder Type "A" guide shoe.

5 1/2" Production String: Pathfinder type "AP" guide shoe. Pathfinder self-fill insert float valve. Run 5 Pathfinder rigid centralizers every other joint above shoe. Run 2 Dowell stage tools at 4300' and at 1800'. Run a cement basket below and 5 centralizers above each stage tool.

Tubing: 6500', of 2 3/8", 4.7#, J-55, 8 Rd, EUE.

Wellhead Equipment: 9 5/8" X 10", 2000# casig head.
10", 2000# X 6", 2000# tubing head.

Cementing:

9 5/8" Surface Casing: 110 sx (130 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl₂. (100% excess)

5 1/2" Production String: STAGE ONE - 219 sx (327 cu. ft.) of 50/50 Class "B", Poz with 6% gel, 1/4# celloflake and .6% Halad 9. (70% excess to cover Gallup)

STAGE TWO - 201 sx (299 cu. ft.) of 50/50 Class "B", Poz with 6% gel, 1/4# celloflake and .6% Halad 9. (50% excess to cover Cliff House)

Cementing: Con't

5 1/2" Production String: STAGE THREE - 129 sx (192 cu.ft.) of 50/50 Class "B" Poz with 6% gel followed by 70 sx of Class "B" with 2% CaCl_2 . If lost circulation occurs add 1/4# cello flake per sack. (50% excess to cover Ojo Alamo.)

Circulate and WOC between stages as required by well conditions.