

F

30-045-24922

2-26-81

F. Loc. 980/N; 1720/W

Elev. 6013 GL

Spd. 4-21-81

Comp. 10-17-81

TD 7181

PB 7135

Casing S. 85/8 @ 238 W 175 Sx. Int. @ W Sx. Pr. 44 @ 7181 W 930 Sx. T. 2 3/4 @ 7181
 Csg. Perf. 6902-7102 Prod. Stim. SWT

TRANS

1254 AOT
 8070
 I.P. 1170 MCF/D After Hrs. SICP 1827 PSI After Days GOR Grav. 1st Del. 3-3-82

TOPS		NITD	Well Log	TEST DATA						
Kirtland		C-103	Plat	Schd.	PC	Q	PW	PD	D	Ref.No.
Fruitland	2025	C-104	Electric Log	4-15-82	1469	372	427	735	318	
Pictured Cliffs	2459	6-1-82	C-122	8/23/83	1026	228	157	513	150	
Cliff House	3296	Ditr	Dfa	5/16/84	926	183	110	4103	149	
Menefee	4219	Datr	Doc	12/3/85	NGP					
Point Lookout	4966	Sq. F-450 7066 W/8004, 1-21-86		12/3/85	NGP					
Manos										
Gallup	6034									
Sanostee										
Greenhorn	6769									
Dakota	6957	5-25-93								
Morrison										
Entrada										
		NWU 3-710 W/325.20								

Old BASIN DATA
zone Aband.

Old
 BASIN DAK
 zone Aband.

P
 o
 i Bas Dak Co. SJ s 31 T 31N R 11W uC Oper. Southland Royalty Co. No. 1A

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 ☒

c. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P.O. Drawer 570, Farmington, NM 87401

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

At surface

980' FNL & 1720' FWL
At proposed prod. zone

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

Approximately 1 mile north of Aztec, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

980'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1020'

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

6013' GR

NEAREST ARE

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY CEMENT
12 1/4"	9 5/8"	32.75#	200'	130 Cu. ft.
8 3/4"	7"	20#	0'-3800'	156 Cu. ft.
	7"	23#	3800'-4730'	424 Cu. ft.
6 1/4"	4 1/2"	10.5#	4580'-6800'	
	4 1/2"	11.6#	6800'-7146'	462 Cu. ft.

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 885'.

Top of Pictured Cliffs sand is at 2461'.

Fresh water mud will be used to drill from surface to intermediate TD.

An air system will be used to drill from intermediate TD to TD.

It is anticipated that an IES log will be run from intermediate TD to surface casing, a GR-Density log from 2800' to 1800', a GR-Induction from TD to intermediate casing and a GR-Density from TD to 5800'.

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

It is expected that this well will be drilled before May 30, 1981. 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

R. E. Zilden

TITLE District Engineer

DATE 2-3-81

(This space for Federal or State comments)

PERMIT NO.

AS AMENDED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

FEB 24 1981

JAMES F. SIMS

DISTRICT ENGINEER

TITLE

DATE

31-645-74922

5. LEASE DESIGNATION AND SERIAL NO.

SF-078115

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

GRENIER

9. WELL NO.

#23E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

Section 31, T31N, R11W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

17. NO. OF ACRES ASSIGNED
TO THIS WELL

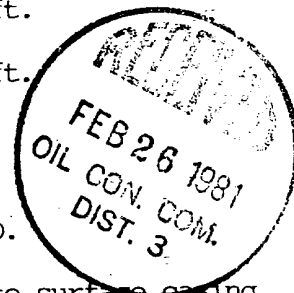
320 60/325.20

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

February 4, 1981



600 3-70

23

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

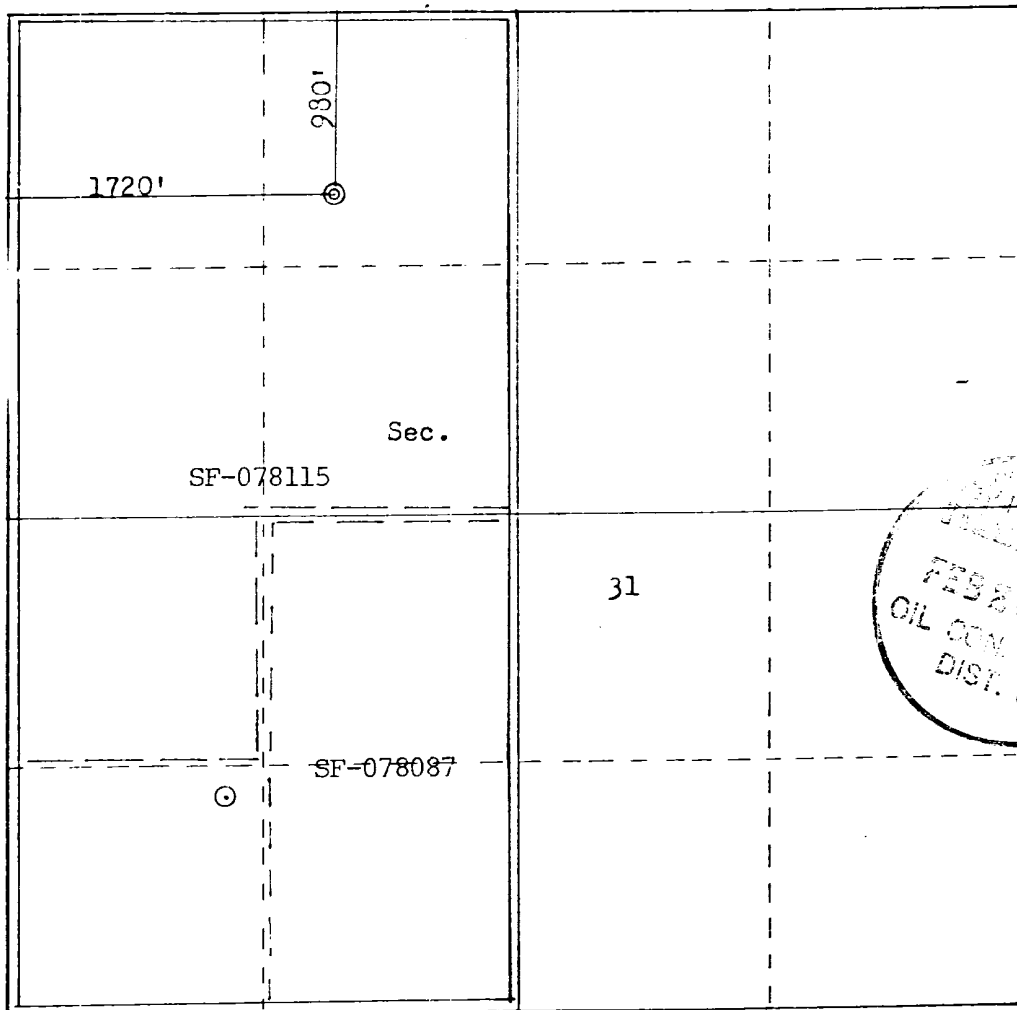
Operator SOUTHLAND ROYALTY COMPANY		Lease GRENIER		Well No. 23E	
Section C	31	Township 31N	Range 11W	County San Juan	
Footage Location of Well: 980 feet from the North line and 1720 feet from the West line					
Ground Level Elev. 6013	Producing Formation Dakota		Pool Basin		Dedicated Acreage: 320 Acres

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 Communitization

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.

R. E. Fielder

Name

Robert E. Fielder

Position

District Engineer

Company

Southland Royalty Company

Date

February 2, 1981

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

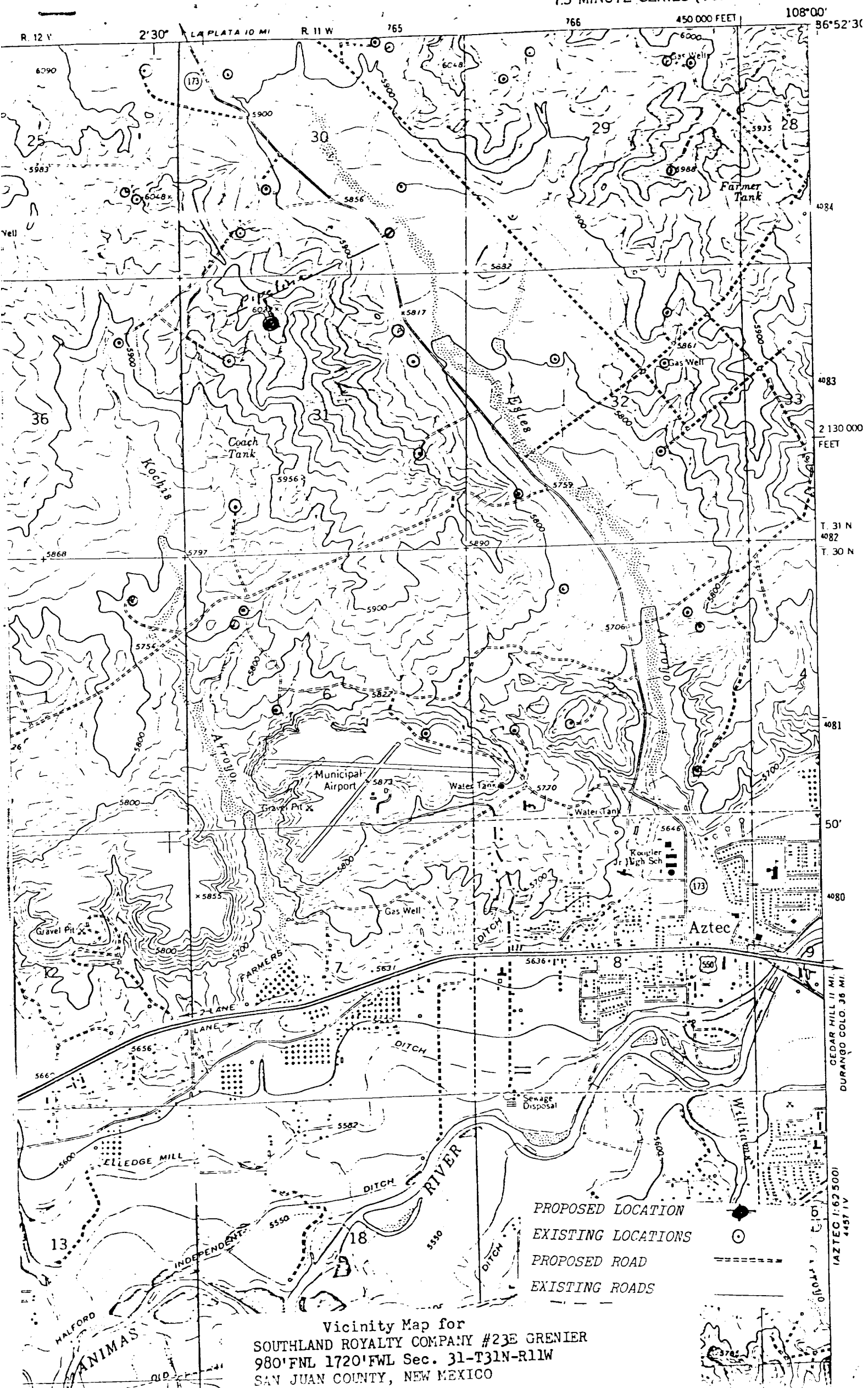
December 18, 1980

Registered Professional Engineer and Land Surveyor

Fred B. Kerr, Jr.

Certificate No. B. KERR, JR.

3950



Vicinity Map for
SOUTHLAND ROYALTY COMPANY #23E GRENIER
980' FNL 1720' FWL Sec. 31-T31N-R11W
SAN JUAN COUNTY, NEW MEXICO