

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 87401

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

At surface

1710' FSL & 1730' FWL

At proposed prod. zone

Same as above

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

18 miles West of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

1710'

16. NO. OF ACRES IN LEASE

1280

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

700'

19. PROPOSED DEPTH

6000'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

W/320 MV

160 P.C.

20. ROTARY OR CABLE TOOLS

Rotary

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

7088' GL

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

October 1, 1981

23. "GENERAL REQUIREMENTS"
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'	130 cu.ft. (Circ. to surface)
8-3/4"	7"	20#	3900'	446 cu.ft. (Cover Ojo Alamo)
6-1/4"	4-1/2"	10.50#	3750'-6000'	395 cu.ft. (Circ. liner)

This action is subject to administrative
appeal pursuant to 30 CFR 290.

Surface formation is San Jose.

Top of Ojo Alamo sand is at 1949'.

Top of Pictured Cliffs sand is at 3544'.

Fresh water mud will be use to drill from surface to intermediate total depth,
and air will be used from intermediate total depth to total depth.It is anticipated that and IEL will be run from intermediate total depth to
surface casing, GR-Density from intermediate total depth to 2500', and
GR-Induction and GR-Density from total depth to intermediate casing point.

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

It is expected that this well will be drilled before November 1, 1981.

This depends on time 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

John A. Crum

TITLE Petroleum Engineer

DATE

8/11/81

(This space for Federal or State office use)

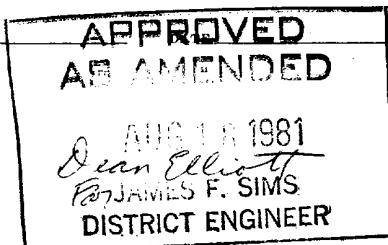
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

John

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

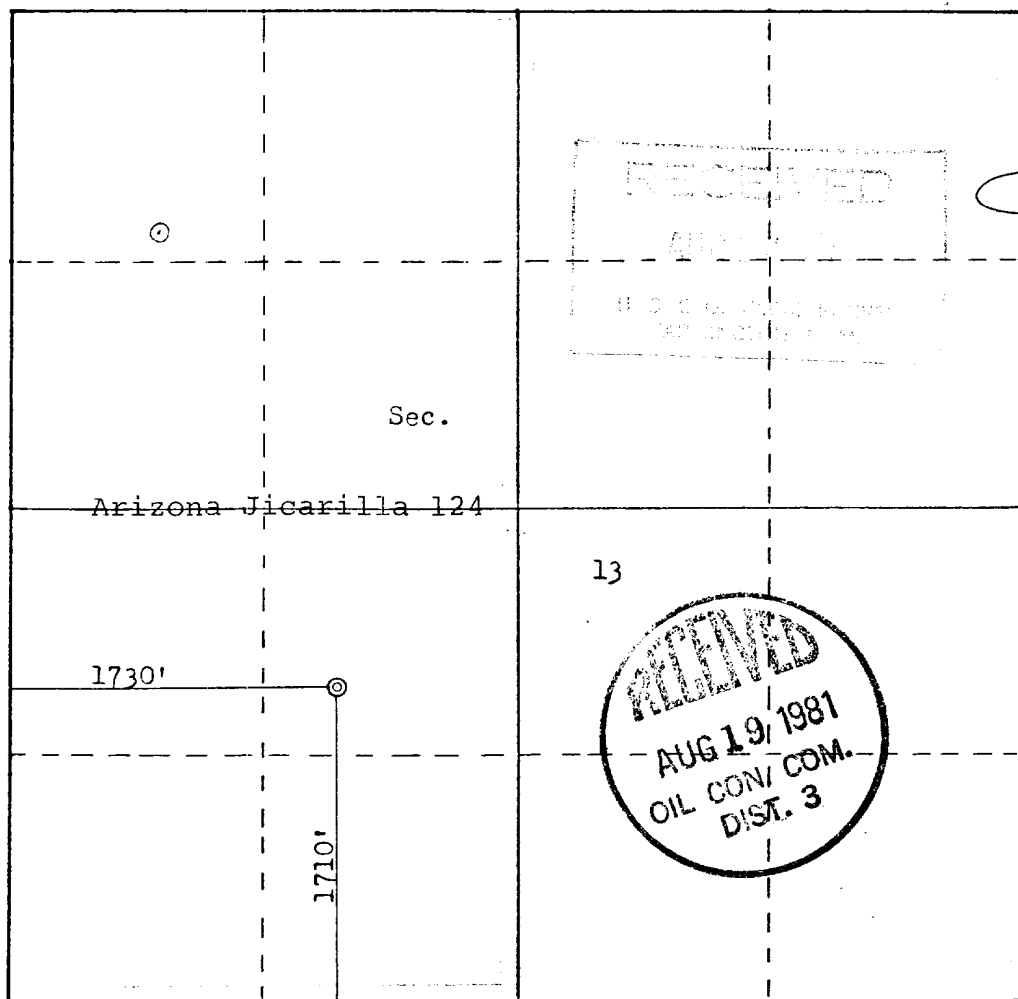
Operator SOUTHLAND ROYALTY COMPANY			Lease ARIZONA-JICARILLA "A"		Well No. 5A
Unit Letter F	Section 13	Township 25N	Range 14W	County Rio Arriba	
Actual Footage Location of Well: 1710 feet from the South line and 1730 feet from the West line					
Ground Level Elev. 7088	Producing Formation Tapacito/Blanco		Pool Pictured Cliffs/Mesa Verde		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.



Scale: 1"=1000'

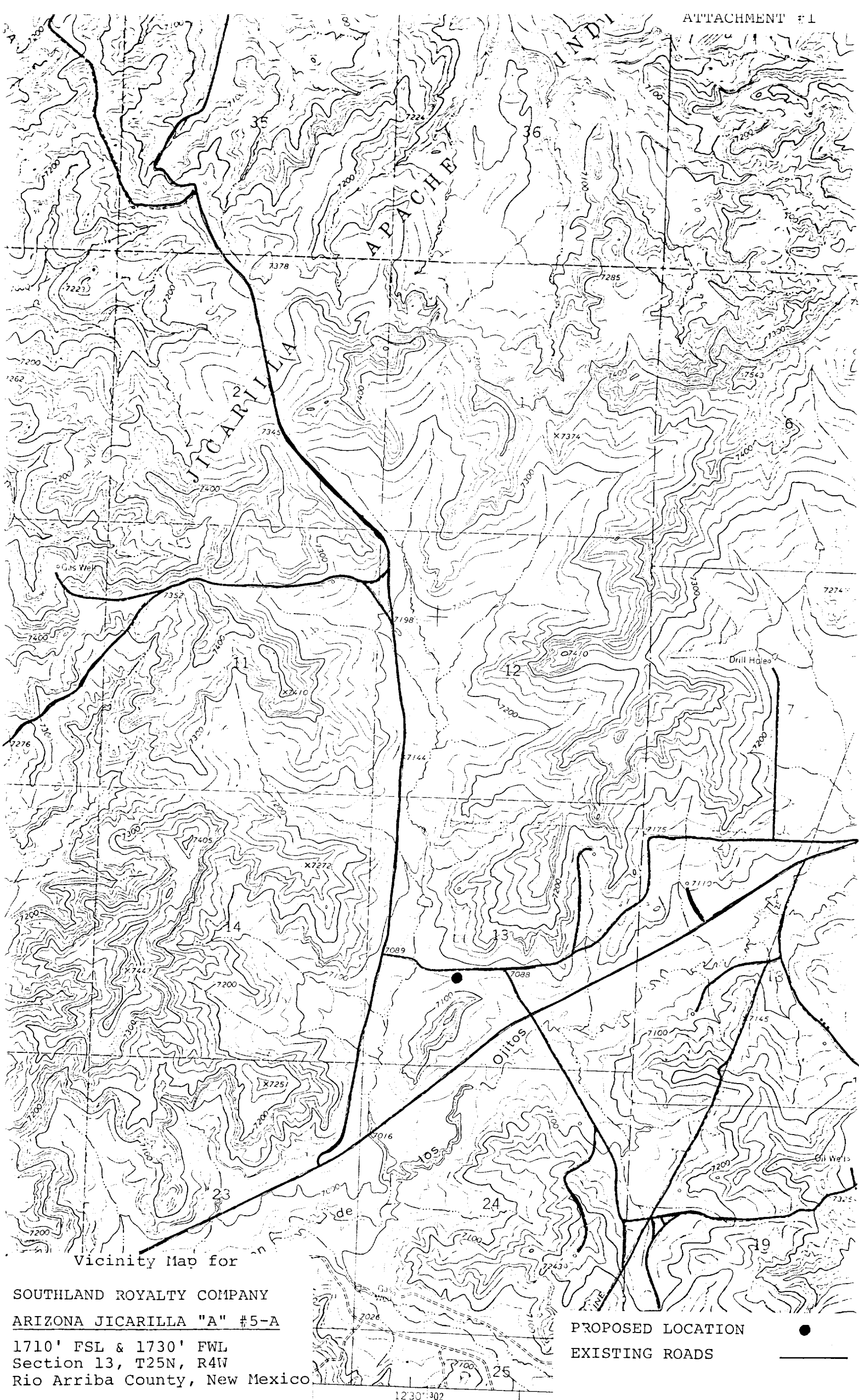
CERTIFICATION

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

Name
L.O. Van Ryan
Position
District Production Manager
Company
Southland Royalty Company
Date
August 11, 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
January 8, 1981
Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.
Certificate No. **3950**



SOUTHLAND ROYALTY COMPANY

ARIZONA JICARILLA "A" #5-A

1710' FSL & 1730' FWL
 Section 13, T25N, R4W
 Rio Arriba County, New Mexico

PROPOSED LOCATION
 EXISTING ROADS

12°30'30"