

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

1030' FNL & 1180' FEL

At proposed prod. zone

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

6 miles East of Farmington, New Mexico

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

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

2073'

20. ROTARY OR CABLE TOOLS

Rotary

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

5811' GR

22. APPROX. DATE WORK WILL START*

August 15, 1978

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'	100 cu. ft.
6-3/4"	2-7/8"	6.5#	2073'	407 cu. ft.

Surface formation is San Jose.

Top of Ojo Alamo sand is at 732'.

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

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

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

It is expected that this well be drilled by October 15, 1978. This depends
on time required for approval, availability and the weather.~~Gas is dedicated.~~

RECEIVED

JUL 25 1978

OIL CON. COM.

DIST. 3

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

TITLE

District Production Manager

DATE

July 20, 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.

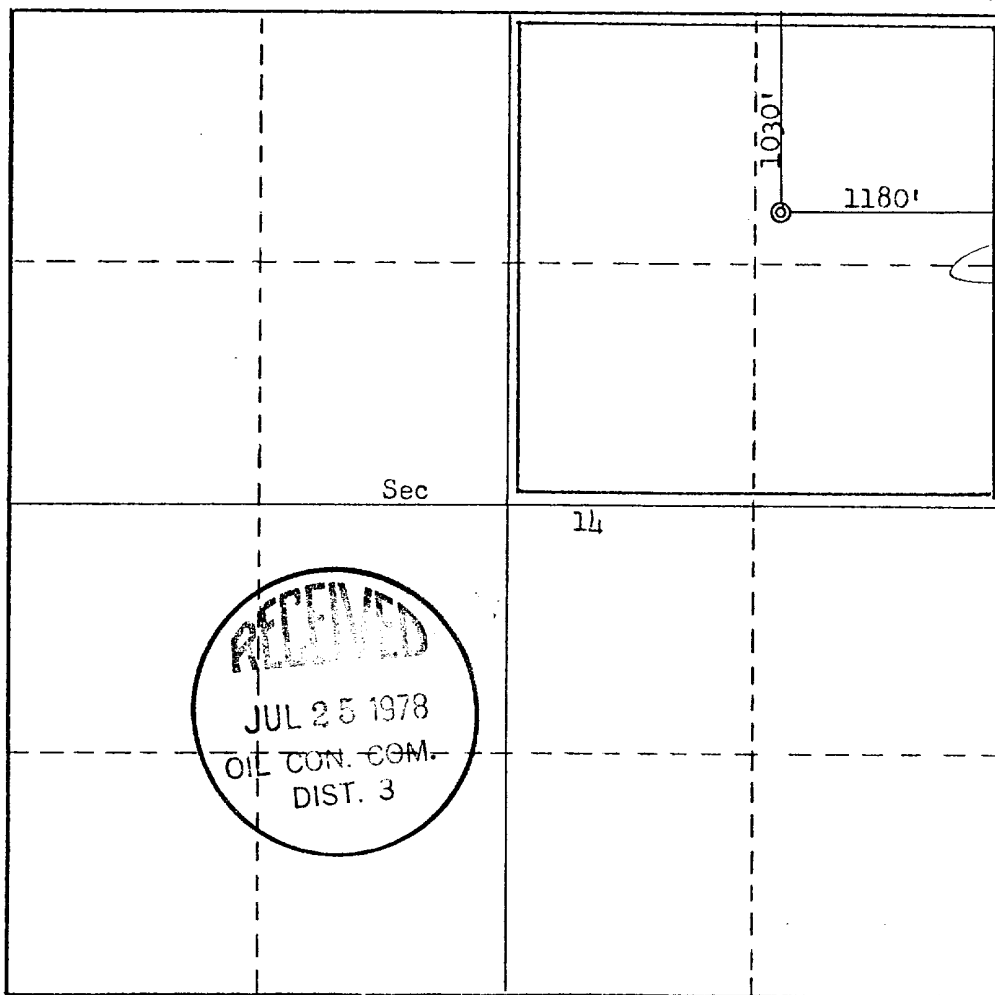
Operator Southland Royalty Company			Lease Cornell		Well No. 8 ✓
Unit Letter A	Section 14	Township 29N	Range 12W	County San Juan ✓	
Actual Footage Location of Well: 1030 feet from the North line and 1180 feet from the East line ✓					
Ground Level Elev. 5811	Producing Formation Pictured Cliffs		Pool Fulcher Kutz ✓	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
July 20, 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
May 9, 1978
 Registered Professional Engineer
 and/or Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
 Certificate No. _____

DRILLING SCHEDULE - CORNELL #8

Location: 1030' FNL & 1180' FEL, Section 14, T29N, R12W, San Juan County, New Mexico

Field: Fulcher Kutz Pictured Cliffs

Elevation: 5811' GR

Geology:

Formation Tops: Ojo Alamo 732'
Fruitland 1572'
Pictured Cliffs 1893'
Total depth 2073'

Logging Program: IES & GR-Density at total depth.

Coring Program: None

Natural Gauges: None

Drilling:

Contractor: Aztec Well Service - Rig #50

Tool Pusher: Bob Young

SRC Representative: Max Larson

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"	2073'	2-7/8"	6.5#	J-55

Float Equipment:

8-5/8" surface casing: Pathfinder Econoline Guide Shoe.

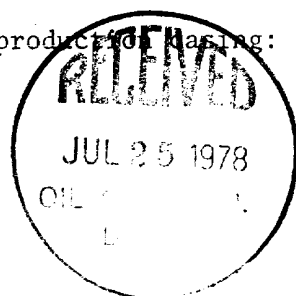
2-7/8" Production casing: Sawtooth collar guide shoe, Howco 2-7/8" latch down baffle (Pr. ref. 60). Two 3-1/16" rubber balls, Howco 2-7/8" Omega plug (Pr. ref. 59). Use 3-1/4" plug container head. One B & W stabilizer each on bottom 6 jts.

Wellhead Equipment: 8-5/8" X 2-7/8" threaded head

Cementing:

8-5/8" surface casing: 85 sxs Class B with 1/4# gel flake per sx and 3% CaCl₂. (100 cu. ft.) WOC 12 hrs. Test to 600# prior to drilling out.

2-7/8" production casing: 295 sxs 50/50 Class B Poz with 6% gel mixed with 7.2 gals. water per sx followed by 50 sxs Class B with 2% CaCl₂. (407 cu. ft). Bump plug with 50 gals 7-1/2% MSA. Run temperature survey 12 hrs after plug down.



District Production Manager



Southland Royalty Company

July 20, 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





Southland Royalty Company

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

Attention: Mr. P. T. McGrath

Dear Sir:

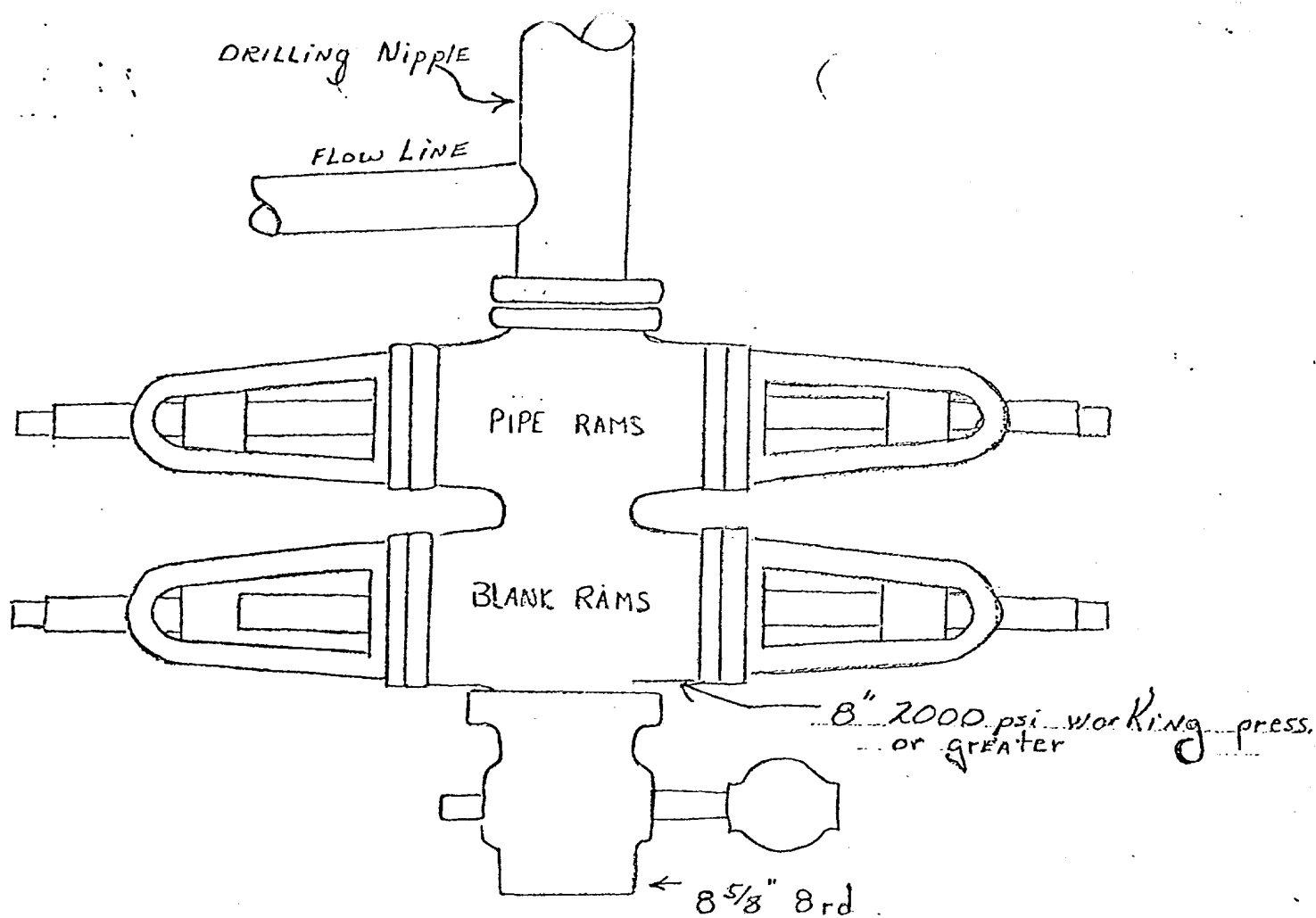
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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: July 20, 1978

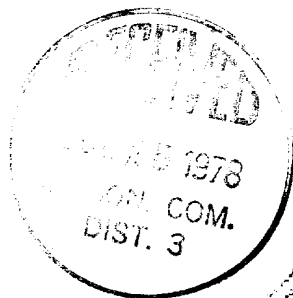
Name: *W. P. Pinner*

Title: District Engineer



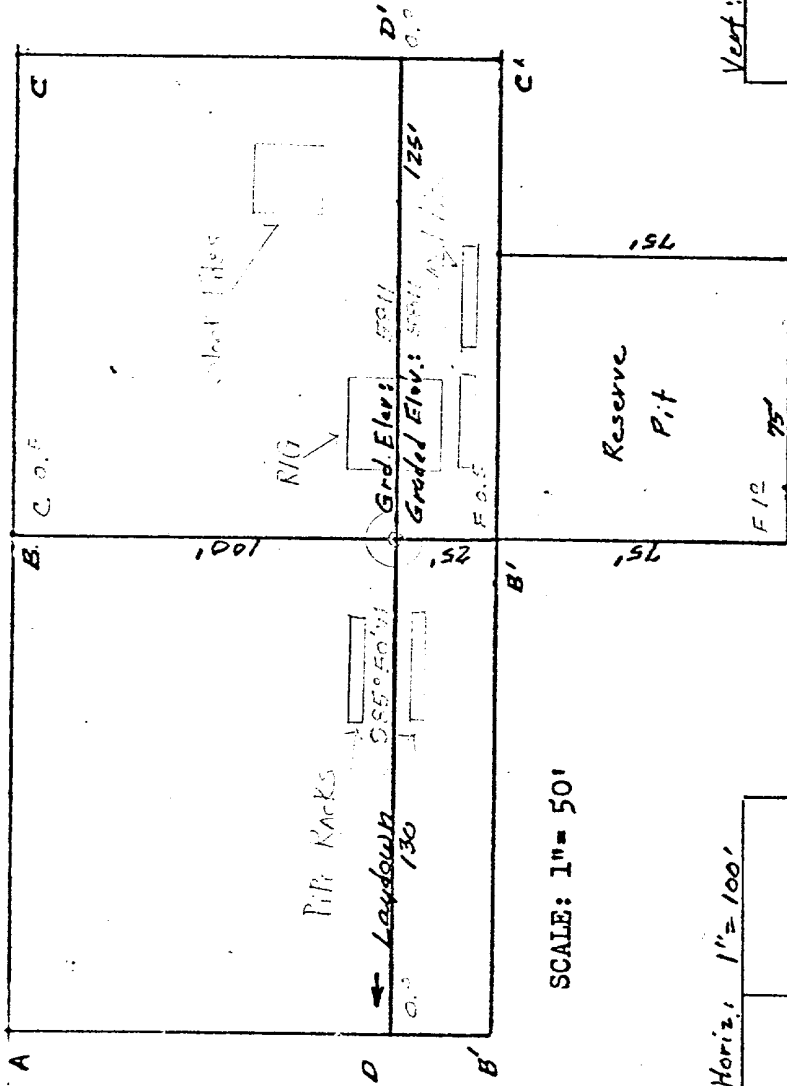


Preventers and spools are to have
through bore of 8" - 2000# or larger.



Location Profile for

SOUTHLAND ROYALTY CO. #8 Cornell
1030'FNL 1180'FEL Sec 14-T29N-R12W
San Juan County, New Mexico



Vert: 1"=40' A-A' Horiz: 1"=100'

B-B' &





5200					
5310					
5800					

Vert: 1"=40' C-C' & Horiz: 1"=100'

D-D' &

5200					
5310					
5800					



PROPOSED LOCATION 
 EXISTING LOCATIONS 
 PROPOSED ROADS 
 EXISTING ROADS 

Vicinity Map for
 SOUTHLAND ROYALTY CO. #8 CORNELL
 1030'FML 1180'FEL Sec 14-T29N-R12W
 San Juan County, New Mexico