

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 1455' FSL & 1610' FEL
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
Jicarilla #446

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla 446

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Coville Pictured Cliff Blanco Mesa Verde

11. SEC., T., E., M., OR H&K.
AND SURVEY OR AREA
Section 8, T27N, R3W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
43 miles southwest of Dulce, 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
125.24 / 350.44

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

19. PROPOSED DEPTH
6242'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7005' GR

22. APPROX. DATE WORK WILL START*
October 1, 1978

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'	130 cu. ft.
8-3/4"	7"	20.00#	3950'	253 cu. ft.
8-3/4"	7"	23.00#	3950'-4127'	
6-1/4"	4-1/2"	10.50#	3977'-6242'	370 cu. ft.
	1-1/2"	2.90#	3977'	
	2-3/8"	4.70#	6242'	

Surface formation is San Jose.

Top of Ojo Alamo sand is at 2400'.

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

An air system will be used to drill from intermediate depth to total depth.

It is anticipated an IES and GR-Density log be run at intermediate depth.

It is anticipated a GR-Density and GR-Induction be run at total depth.

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

It is expected this well be drilled before November 1, 1978. This depends on

time required for approvals, rig availability and the weather.

Gas is not 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 August 9, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE _____ DATE AUG 14 1978

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

*See Instructions On Reverse Side

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.

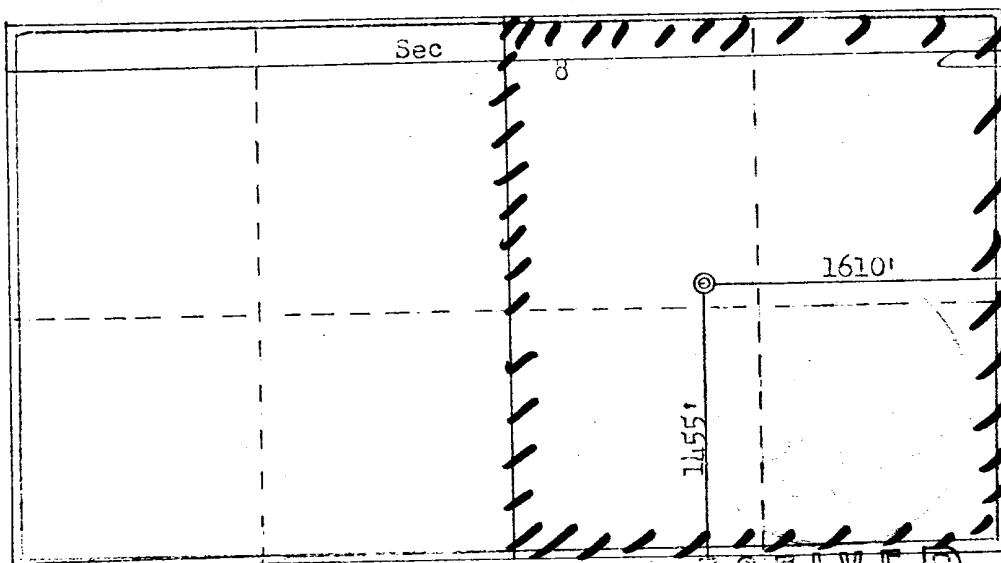
Operator SOUTHLAND ROYALTY COMPANY		Lease JICARILLA 446		Well No. #1
Unit Letter J	Section 8	Township 27N	Range 3W	County Rio Arriba
Actual Footage Location of Well: 1455 feet from the South line and 1610 feet from the East line				
Ground Level Elev: 7005	Producing Formation Pictured Cliffs-Mesaverde	Pool Gaviota	Dedicated Acreage: 350.44 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 *Don Jan*
Position
District Production Manager
Company
Southland Royalty Company
Date
August 9, 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
July 2, 1978
Registered Professional Engineer and Land Surveyor
Fred B. [Signature]
Fred B. [Signature]
Certificate No. 2050

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OIL SURVEY
COLO.

DRILLING SCHEDULE - JICARILLA 446 #1

Location: 1455' FSL & 1610' FEL, Section 8, T27N, R3W, Rio Arriba, NM

Field: Choza Mesa Pictured Cliffs/Blanco Mesa Verde Elevation: 7005' GL
7017' KB

Geology: Formation Tops: Ojo Alamo 2400' Cliff House 5642'
Pictured Cliffs 3727' Total Depth 6242'
Intermediate 4127'

Logging Program: IES & GR Density @ Intermediate.
GR Induction & GR Density @ Total Depth.

Coring Program: None

Natural Gauges: Gauge @ last connection above Cliff House & @ TD.
Also gauge any noticeable increases in gas. Record
all gauges in tour book & turn in on morning report.

Drilling: Contractor - Tool Pusher:
SRC Representative: SRC Ans. Svc. 325-1841
Dispatch No. 325-7391

Mud Program: Fresh water mud to Intermediate.
Air from Intermediate 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"	32.30# H-40
8 3/4"	3950'	7"	20.00 K-55
	3950'-4127'	7"	23.00 K-55
6 1/4"	3977'-6242	4 1/2"	10.5# K-55

Float Equipment: 9 5/8" surface casing - Pathfinder type "A" guide shoe.

7" intermediate casing - Pathfinder type "A" guide shoe. Howco self-fill insert float valve. 5 Pathfinder rigid centralizers. Run float 2 joints above shoe. Run centralizers every other joint above shoe.

4 1/2" liner - Pathfinder type "AP" guide shoe. Prod. #2017-1-050. Pathfinder type "AP" flapper float collar. Prod. #2008-2-000.

Wellhead Equipment: Rector 9 5/8" X 10", 600# casing head.
10", 600# X 6", 600# tubing head with dual hanger
for 2 3/8" X 1 1/2".

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SOIL SURVEY
1980.

Cementing: 9 5/8" surface casing - 110 sx. Cl "B" w/1/4# gel flake/sk & 3% CaCl₂ (130 cu.ft.). WOC - 12 hrs. Test to 600 psi prior to drilling out.

7" intermediate casing -145 sx 50/50 poz w/6% gel (7.2 gal. water/sk), followed by 70 sx Cl "B" w/2% CaCl₂ (253 cu. ft.)
If lost circulation is encountered during drilling, add 1/4 cu.ft. of fine gilsonite/sk. WOC-12 hrs.
Run temp survey after 8 hrs. Test to 1000 psi before drilling out.

4 1/2" liner - Precede cement with 20 bbls. gel water. Cement with 250 sx 50/50 poz w/6% gel & 0.6% Halad 9 (370 cu.ft.).

L. O. Van Ryan

CCP/kde

8-7-78



Southland Royalty Company

August 9, 1978

United States Geological Survey
P. O. Box 1809
Durango, Colorado

Attention: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" 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.

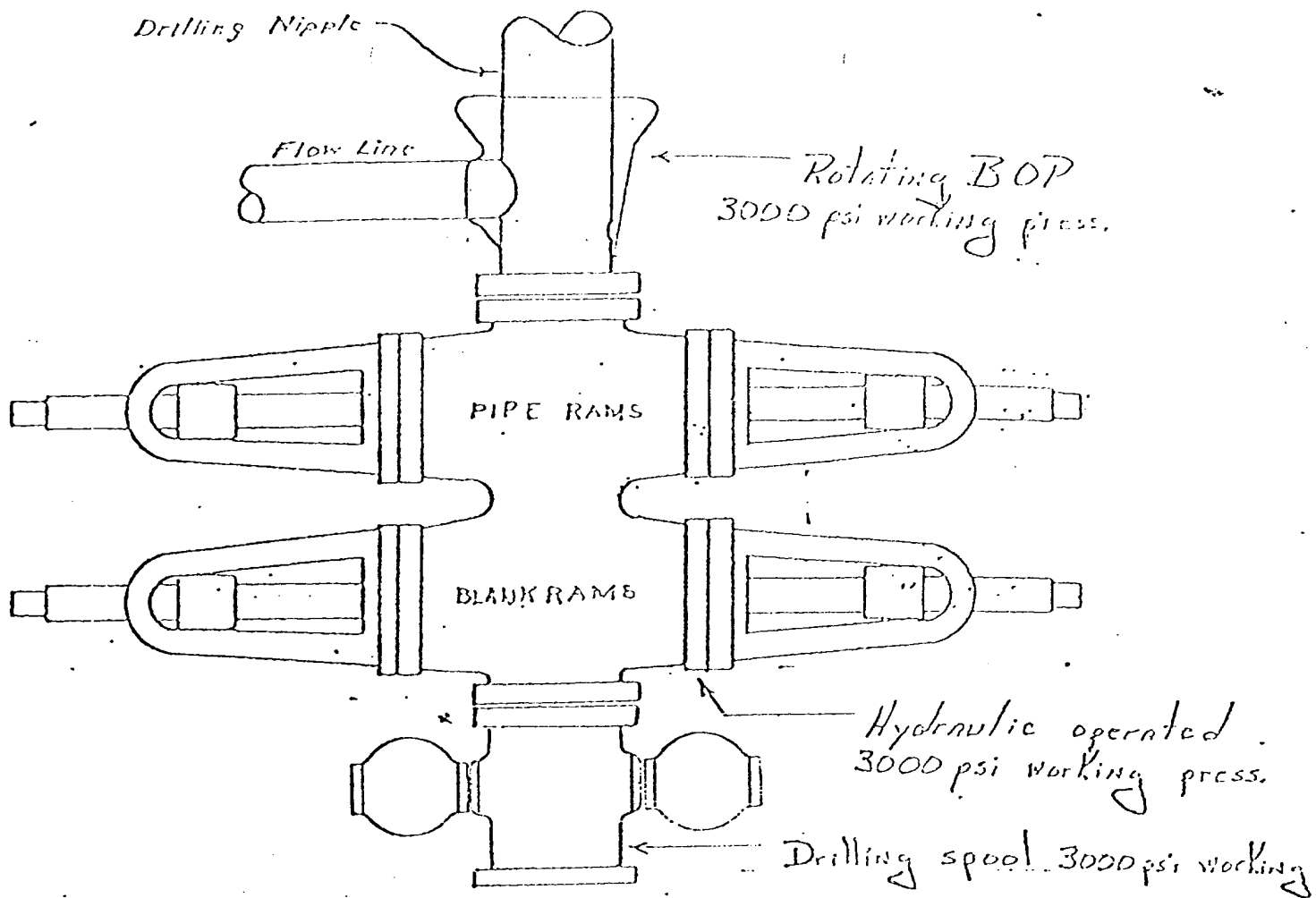
Yours truly,

L. O. Van Ryan
District Production Manager

LOVR/dg

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U.S. GEOLOGICAL SURVEY
DURANGO, COLO.



Preventers and spools are to have
through bore of 6" - 3000# PSI or larger.

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WELL SURVEY
C.S.L.O.



Southland Royalty Company

August 9, 1978

United States Geological Survey
P. O. Box 1809
Durango, Colorado

Attention: Mr. Jerry Long

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Jicarilla 446 #1 well. The location 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.

Contractor will furnish restroom facilities on location.

There will be no air strips or camps.

Also, enclosed is a location layout showing approximate location of rig, pits, pipe racks and cut required to build this location.

Water supply will be water holes along La Jara Wash. All water will be transported by truck and stored on location.

The location will be restored according to Bureau of Indian Affairs 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,

L. O. Van Ryan
District Production Manager

LOVR/dg



Southland Royalty Company

United States Geological Survey
P. O. Box 1809
Durango, Colorado

Attention: Mr. Jerry Long

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 9, 1978

Name: CC Parsons

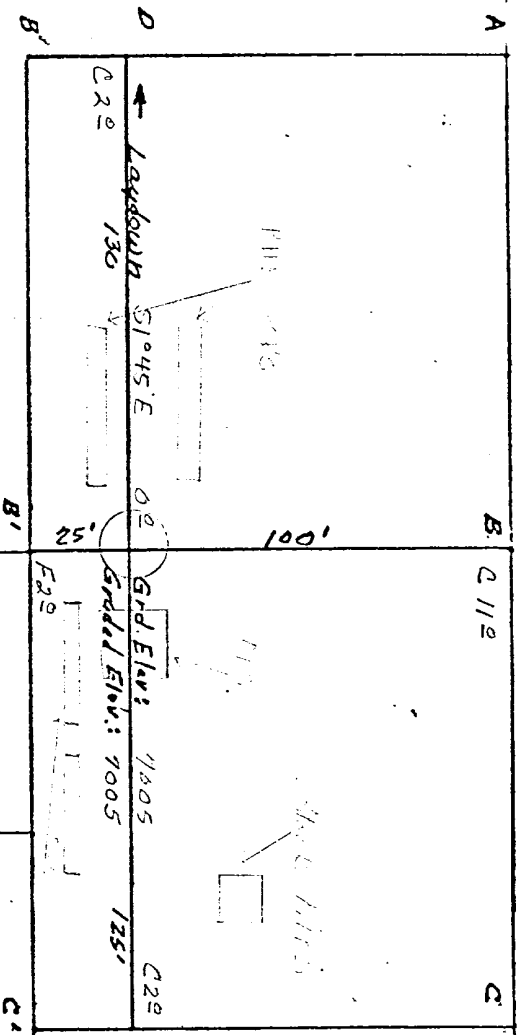
Title: District Engineer

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U.S. GEOLOGICAL SURVEY
DURANGO, COLO.

Location Profile for
 SOUTH LAND ROYALTY CO. #1 Jicarilla 446
 1455 FSL 1610 FEL Sec 8-T27N-R3W
 Rio Arriba County, New Mexico

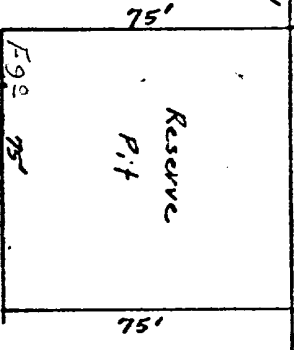


SCALE: 1" = 50'

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

B-B' &

7020					
7010					
7000					
6990					



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 AUG 14 1978
 LAND SURVEY
 10510

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

D-D' &

7020					
7010					
7000					
6990					

