

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

790' FNL & 790' FEL

At proposed prod. zone

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

24 miles southwest of Dulce, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

7650'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 / 60

20. ROTARY OR CABLE TOOLS

Rotary

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

6982' GR

22. APPROX. DATE WORK WILL START*

July 30, 1979

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'	135 sxs.
7-7/8"	4-1/2"	10.50#	0-7000'	469 sxs.- 1st Stage
7-7/8"	4-1/2"	11.60#	7000'-7650'	378 sxs.- 2nd Stage
	2-3/8"	4.70#	7650'	

Surface formation is San Jose.

Top of Pictured Cliffs sand is at 3520'.

Top of Mesaverde sand is at 5650'.

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

It is anticipated that a Dual Induction log, Gamma Ray Neutron log and a
Bore Hole Compensated Sonic 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 October 31, 1979
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

TITLE

District Production Manager

DATE

June 26, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

JUL 2 1979

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

30-039-22116

5. LEASE DESIGNATION AND SERIAL NO.

NM-10431

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Burns Ranch

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Campo Gallup

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

Section 13, T29N, R4W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

New Mexico

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

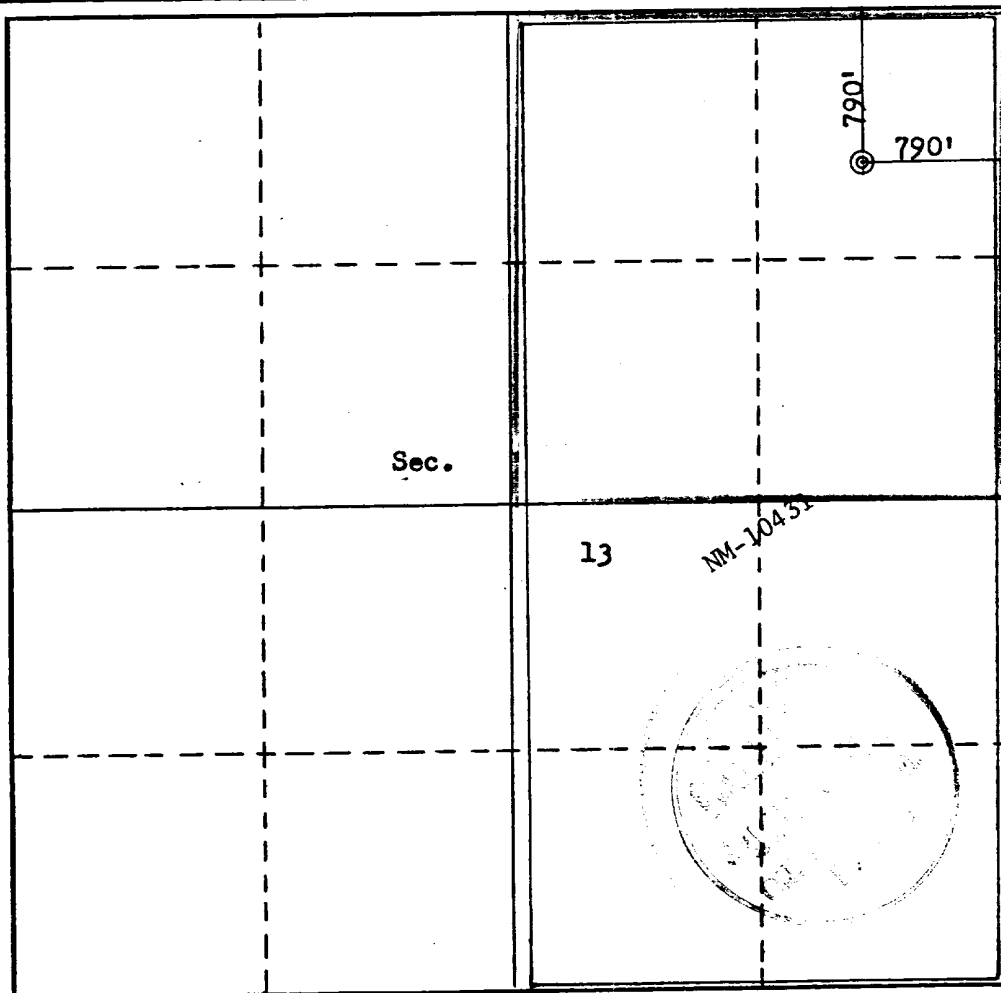
Operator SOUTHLAND ROYALTY COMPANY			Lease BURNS RANCH		Well No. 1
Unit Letter A	Section 13	Township 29N	Range LW	County Rio Arriba	
Actual Footage Location of Well: 790 feet from the North line and 790 feet from the East line					
Ground Level Elev. 6982	Producing Formation Gallup		Pool Campo <i>est</i>		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.

Name *Don Ryan*
Position
District Production Manager
Company
Southland Royalty Company
Date
June 26, 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 23, 1979
Registered Professional Engineer
and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. 3950
STATE OF NEW MEXICO
FRED B. KERR, JR.



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: June 26, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

June 26, 1979

United States Geological Survey
P. O. Box 1809
Durango, Colorado 81301

Attention: Mr. Jerry Long

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Burns Ranch #1 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.

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 the La Jara Wash. All water will be transported by truck and stored on location.

The location will be restored according to Forest Service standards. 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/dg



Southland Royalty Company

June 26, 1979

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.

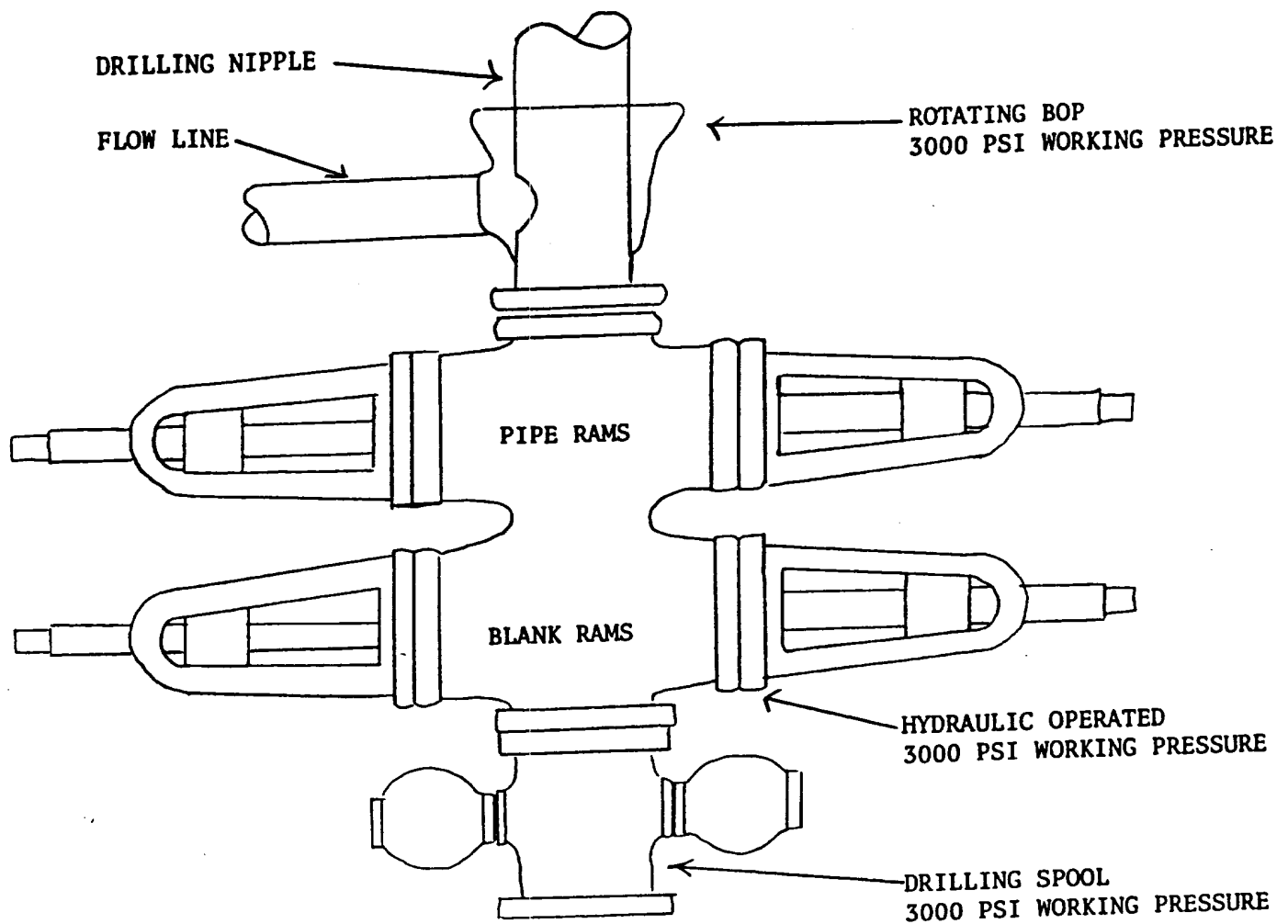
The preventer is 3000# working pressure and 6000# test.

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



PREVENTERS AND SPOOLS ARE TO HAVE
THROUGH BORE OF 6" - 3000 PSI OR LARGER

DRILLING SCHEDULE - BURNS RANCH #1

Location: 790' FNL & 790' FEL, Section 13, T29N, R4W, Rio Arriba County, New Mexico

Field: Campo Gallup

Elevation: 6982' GR

Geology:

Formation Tops:	Pictured Cliffs	3520'
	Mesaverde	5650'
	Point Lookout	5900'
	Gallup	6988'
	Total Depth	7650'

Logging Program: Run Dual Induction log, GR-Neutron, Bore Hole Comp. Sonic from TD to surface casing

Coring Program: None

Samples: One man mud log unit from surface casing to total depth.
30 ft samples from surface casing to 3400'.
10 ft samples from surface casing to total depth.
Sample all zones of interest.

Drilling:

Contractor:

Tool Pusher

SRC Representative:

SRC Answering Service:

Mud Program:

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12-1/4"	200'	9-5/8"	32.30# H-40 ST&C
	7-7/8"	0- 7000'	4-1/2"	10.60# K-55 ST&C
	7-7/8"	7000- 7650'	4-1/2"	11.60# K-55 ST&C

Float Equipment:

9-5/8" surface casing - Pathfinder Type "A" Guide Shoe.

4-1/2" Liner - Pathfinder cement guide shoe. Flapper type self-fill float collar 40' off bottom. Dowell stage tool at 3820'

Tubing - 2-3/8", 4.7#, CSR-55, UEU, 8rd at 7650' (+)

Wellhead - 9-5/8" X 10", 2000# casing head with slips for 4-1/2" casing.
10", 600 X 6" 600 tubing head with 2-3/8" tubing hanger

Cementing:

9-5/8" surface casing - 159 cu. ft. (135 sxs) Class B with 1/4# gel-flake per sack and 3% CaCl₂ (100% Excess)

4-1/2" Production String - Stage 1: 469 sxs of 50/50 Class "B" Poz with 6% gel, 1/4# cello-flakes and .6% Halad 9.

Stage 2: 378 sxs 50/50 Class "B" Poz with 6% gel. Tail in with 50 sxs Class "B" with 2% CaCl₂.

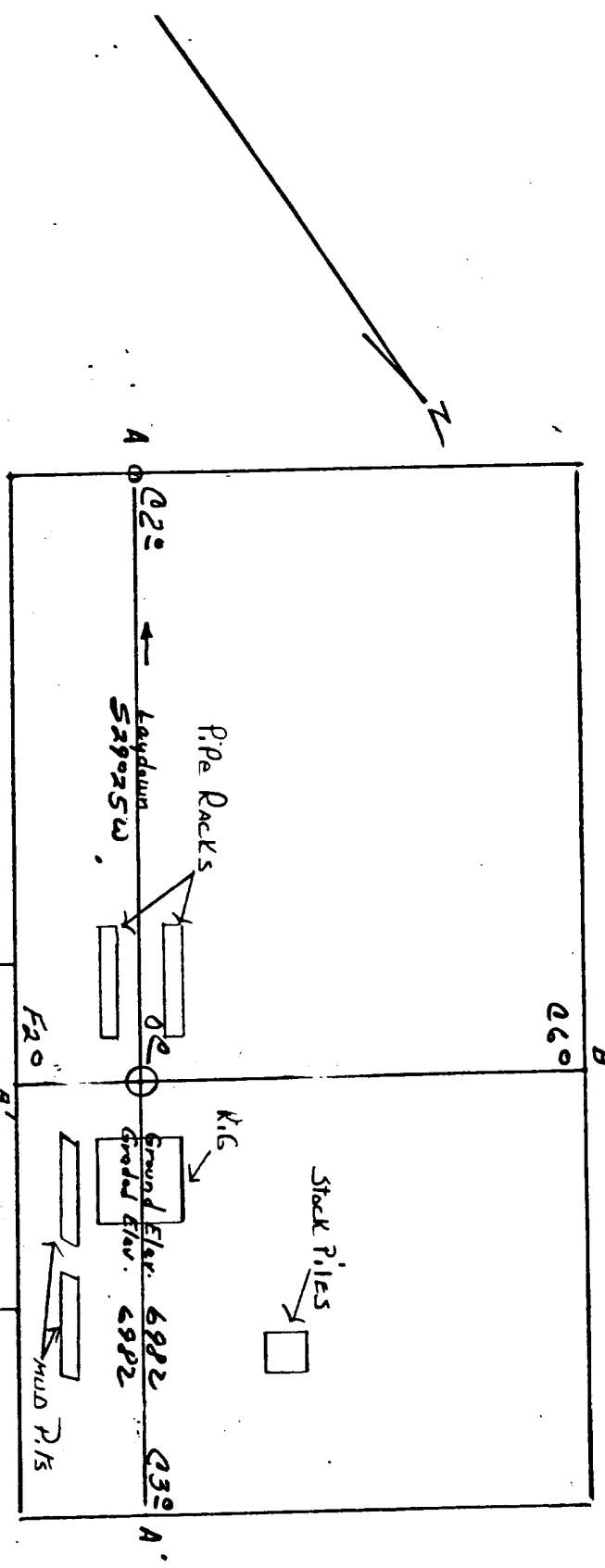
Circulate and WOC between stages as required by well conditions.

If lost circulation occurs in Gallup this cmt program will be changed by the district office.

Notify company geologist 24 hrs prior to logging, testing or plugging.

Douglas J. Kirn - office 303-534-0286
home 303-841-4392

LOCATION FIELDS LOT
 SOUTHLAND ROYALTY COMPANY #1 BURNS RANCH
 790 PNL 790 FEL Sec 13-T29N-RLW RIO ARriba COUNTY, NEW MEXICO

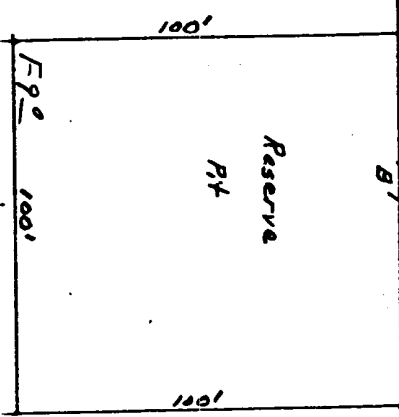


Vert. 1"=40' A-A' Horiz. 1"=100'

6990					
6988					
6970					

B-B' Horiz. 1"=100'

6990					
6980					
6970					



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

D-D' Horiz. 1"=100'

KERR LAND SURVEYING
 Date: 6/23/79

