

20-145-27316

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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BLM MAIL ROOM
89 MAR 17 PM 1:34
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-076958
1b. TYPE OF WELL GAS SINGLE ZONE	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR SOUTHLAND ROYALTY CO.	7. UNIT AGREEMENT NAME
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME HARE
4. LOCATION OF WELL 1200'N 970'E	9. WELL NO. 294
10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	11. SEC. T. R. M OR BLK. A SEC. 15 T29N R10W NMPM
14. DISTANCE IN MILES FROM NEAREST TOWN 5 MILES FROM BLANCO	12. COUNTY SAN JUAN
	13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION 970' TO NEAREST PROPERTY OR LEASE LINE.	16. ACRES IN LEASE 2336.05
	17. ACRES ASSIGNED TO WELL 318.38
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 300' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 2100'
	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5710'GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

RECEIVED

24. AUTHORIZED BY: *[Signature]* MAY 04 1989
REGULATORY AFFAIRS OIL CON. DIV
DIST. 3

3-16-89
DATE

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

[Signature]

[Signature]

OPERATIONS PLAN

DATE: MAR 14, 1989

Well Name: 294 HARE
 Sec. 15 T29N R10W
 BASIN FRUITLAND COAL

1200'N 970'E
 SAN JUAN NEW MEXICO
 Elevation 5710'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 910
 Kirtland- 1022
 Fruitland- 1808
 Fruitland Coal Top- 1956
 Fruitland Coal Base- 2100
 Intermediate TD- 1936
 Total Depth- 2100
 Pictured Cliffs- 2102

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Low solid non-dispersed mud from surface to total depth.

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 1936	7"	20.0#	K-55
	6 1/4"	1886 - 2100	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2100	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe.

5 1/2" production liner - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 99 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 308 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.

The Fruitland coal formation will be completed.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well. This gas is dedicated.

The N/2 of Section 15 is dedicated to this well.

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

Operator Southland Royalty Company			Lease Hare (SF-076958)		Well No. 294
Unit Letter A	Section 15	Township 29 North	Range 10 West	County San Juan	
Actual Pastage Location of Well: 1200 feet from the North line and 970 feet from the East line					
Ground Level Elev. 5710	Producing Formation Fruitland Coal		Pool Basin		Dedicated Acreage: 318.38

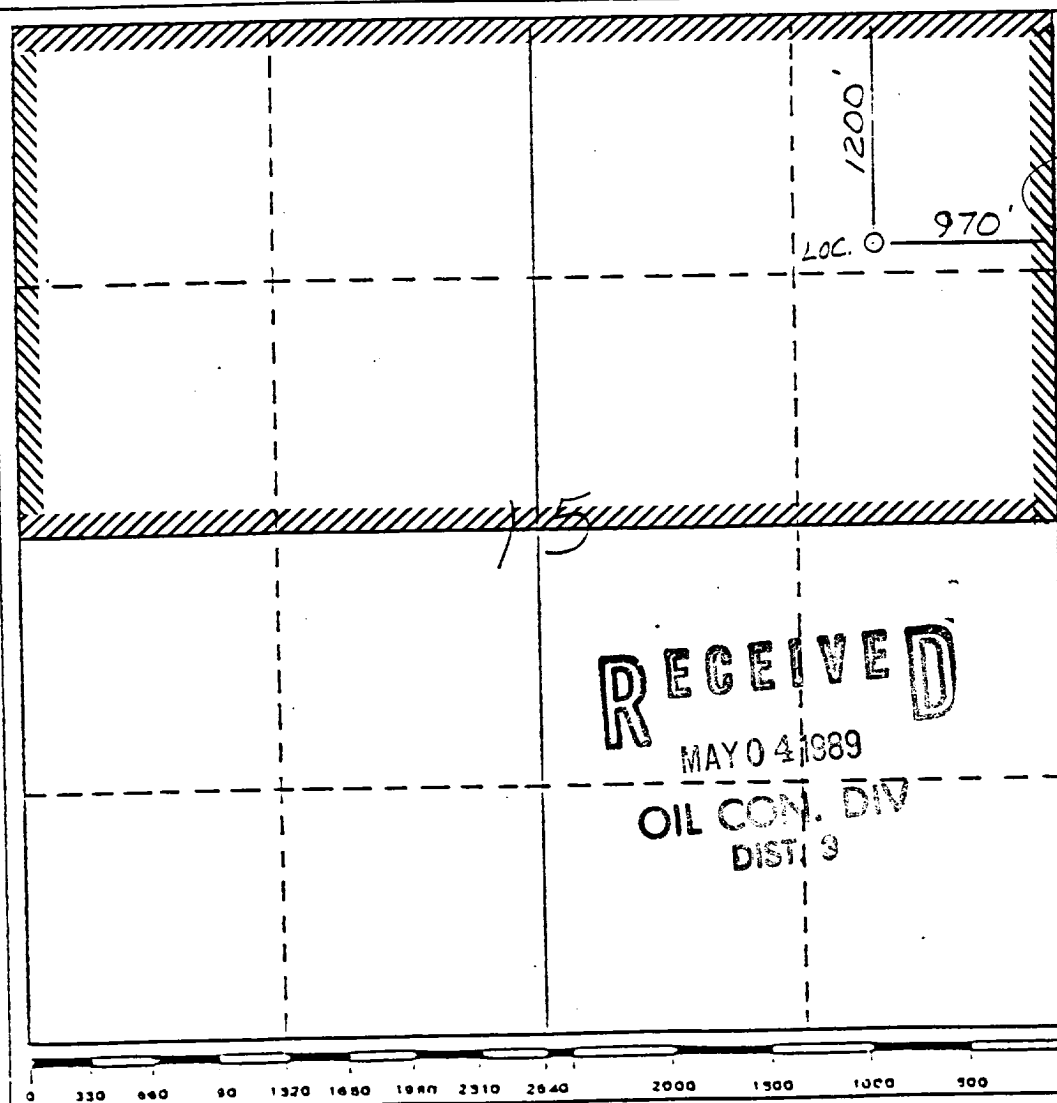
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty).
3. If more than one lease of different ownership is dedicated 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 Division.

Reissued to show moved location



CERTIFICATION

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

[Signature]
Name _____

Regulatory Affairs
Position _____

Southland Royalty Company
Company _____

3-15-89
Date _____

I hereby certify that the location shown on this plat was plotted from notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.

[Signature]
Date Surveyed _____

12-4-38
Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards
Certificate No. _____

6857