UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

REGEIVED BLM MAIL ROOM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK AM 10: 17

5. LEASE NUMBER MINGTON NEW MEXICO la. TYPE OF WORK DRILL SF-078115 1b. TYPE OF WELL 6. IF INDIAN, ALL. OR TRIBE NAME GAS SINGLE ZONE 2. OPERATOR 7. UNIT AGREEMENT NAME SOUTHLAND ROYALTY CO. ADDRESS & PHONE NO. OF OPERATOR 8. FARM OR LEASE NAME P O BOX 4289 GRENIER FARMINGTON, NM 87499 9. WELL NO. 101 LOCATION OF WELL 10. FIELD, POOL, OR WILDCAT 1925'S 1830'W BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. K SEC. 7 T31N R11W NMPM 14. DISTANCE IN MILES FROM NEAREST TOWN 12. COUNTY 13. STATE 8 MILES FROM AZTEC SAN JUAN 15. DISTANCE FROM 16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL PROPOSED LOCATION 1830' 320.40DRILLIANA TONO TO BE A 1. 3.75 TO NEAREST PROPERTY SUBJECT. W/31890 4.5 OR LEASE LINE. 11 (35) 18. DISTANCE FROM 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS PROPOSED LOCATION 2800' ROTARY TO NEAREST WELL DR. 700' *Th'* < 4.5 % COMPL., OR APPLIED **\$**. 7 \(\frac{1}{2}\) \(\frac{1}{2}\) FOR ON THIS LEASE. 21. ELEVATIONS (DF, FT, GR, ETC.) 22. APPROX. DATE WORK WILL START 6218'GL $\overline{23}$. PROPOSED CASING AND CEMENTING PROGRAM *SEE OPERATIONS PLAN MAR21 1989

Sand Stad Live &

OIL CON. DIV

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

APPROYED
AS AMENDED
MAR 1.7 1989
AREA MANAGER

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24. AUTHORIZED BY:

OPERATIONS PLAN

Well Name: 101 GRENIER

1925'S 1830'W

Sec. 7 T31N R11W

SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL

Elevation 6218'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1048 Kirtland- 1133

Fruitland- 2417

Fruitland Coal Top- 2561

Fruitland Coal Base- 2787

Intermediate TD- 2545

Total Depth- 2800

Pictured Cliffs- 2810

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 12 1/4" 8 3/4"	Depth Interval 0 - 200 0 - 2545	9 [*] 5/8" 7"	Weight 32.3# 20.0#	Grade H-40 K-55
	6 1/4"	2495 - 2800	5 1/2"	15.5#	K-55
Tubing Program:	,	0 - 2800	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 172 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. 450 cu ft. of slurry, 100% excess to cover the Ojo Alamo. 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 W/2 of Section 7 is dedicated to this well.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

330 000

80 1320 1650 1980 2310 2640

2000

1500

1000

100

OIL CONSERVATION DIVISION P. Q. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1

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

Operator					Lease				Well No.		
Southland Royalty Company			Grenier (SF-			78115)	101				
Unit Letter	1	Sectio	n	Township		Roma		County		··· ·· ·· ··	
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Actual Foota		ition of		G +1		1000					
192	5	feet (from the	South	line and	1830	lee	t from the	West		line
Ground Leve			Producing For	mation		Pool					ited Acreage:
62	18'		Fruitla	and Coal		Ва	sin			-32	20.40
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2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to worki interest and royalty).											
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been conso dated 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 this form if necessary.)										
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