

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

21-045-27272

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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 1450'N 1565'E	9. WELL NO. 296
14. DISTANCE IN MILES FROM NEAREST TOWN 2 MILES FROM BLANCO	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 1450'	11. SEC. T. R. M OR BLK. G SEC. 23 T29N R10W NMPM
16. ACRES IN LEASE 2336.05	12. COUNTY SAN JUAN
17. ACRES ASSIGNED TO WELL DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". 3205.00	13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE. 400'	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 5740'GL	22. APPROX. DATE WORK WILL START
23. PROPOSED CASING AND CEMENTING PROGRAM *SEE OPERATIONS PLAN	
24. AUTHORIZED BY: <i>[Signature]</i> REGULATORY AFFAIRS	OIL CON. OF DIST. 2 3-30-89 DATE

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

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

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

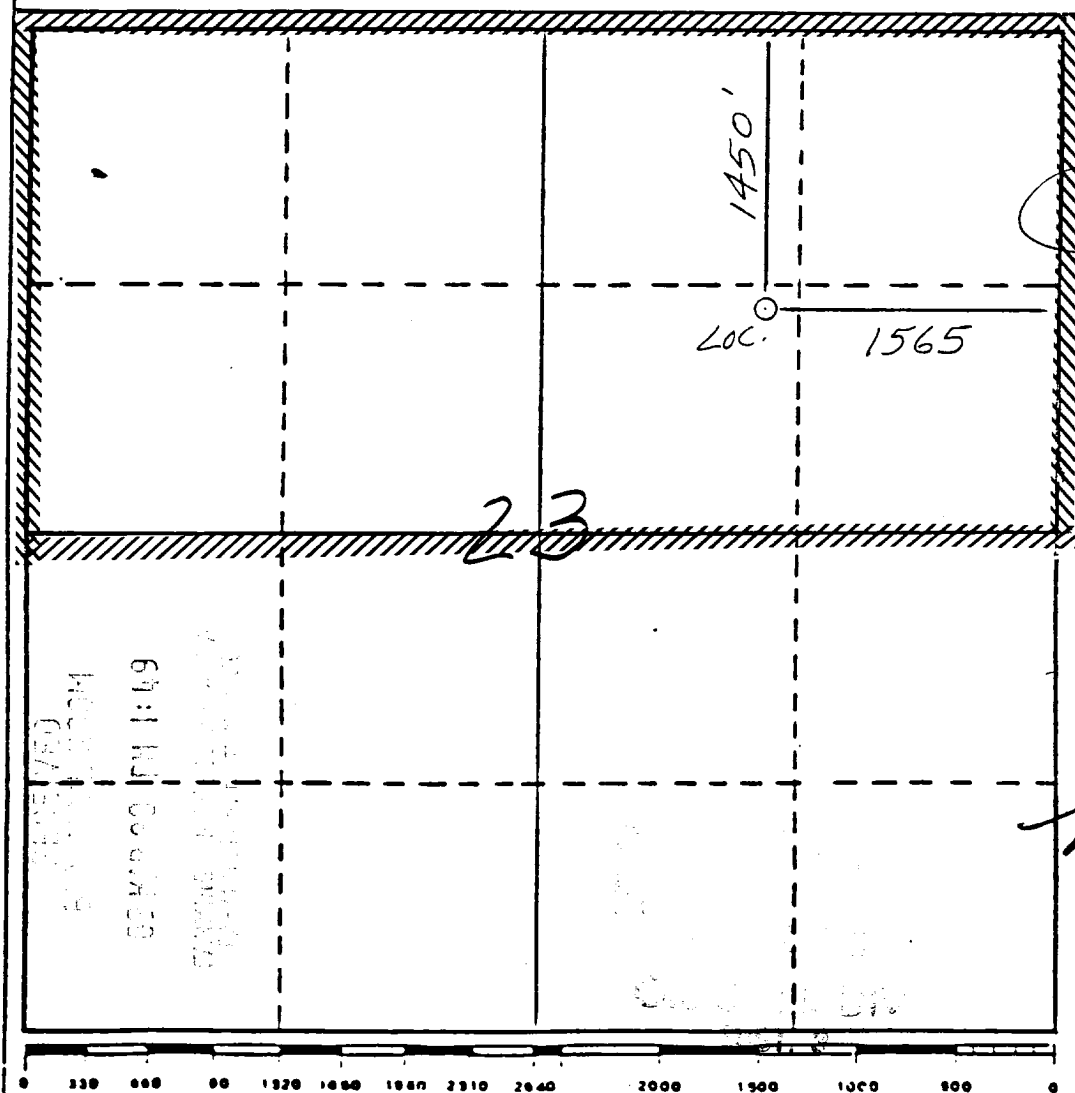
Operator Southland Royalty Co		Lease Hare (SF-076958)		Well No. 296
Unit Letter G	Section 23	Township 25 North	Range 10 West	County San Juan
Actual Footage Location of Wells 1450 feet from the North line and 1565 feet from the East line				
Ground Level Elev. 5740'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320	

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 well 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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Div



CERTIFICATION

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

Name
Regulatory Affairs

Position
Southland Royalty

Company
3-29-89

Date

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

Date Surveyed

11-4-88

Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards

Certificate No.

6857

OPERATIONS PLAN

DATE: MAR 14, 1989

Well Name: 296 HARE 1450'N 1565'E
 Sec. 23 T29N R10W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 5740'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 924
 Kirtland- 1091
 Fruitland- 1768
 Fruitland Coal Top- 1956
 Fruitland Coal Base- 2098
 Intermediate TD- 1936
 Total Depth- 2098
 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 - 2098	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2098	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.

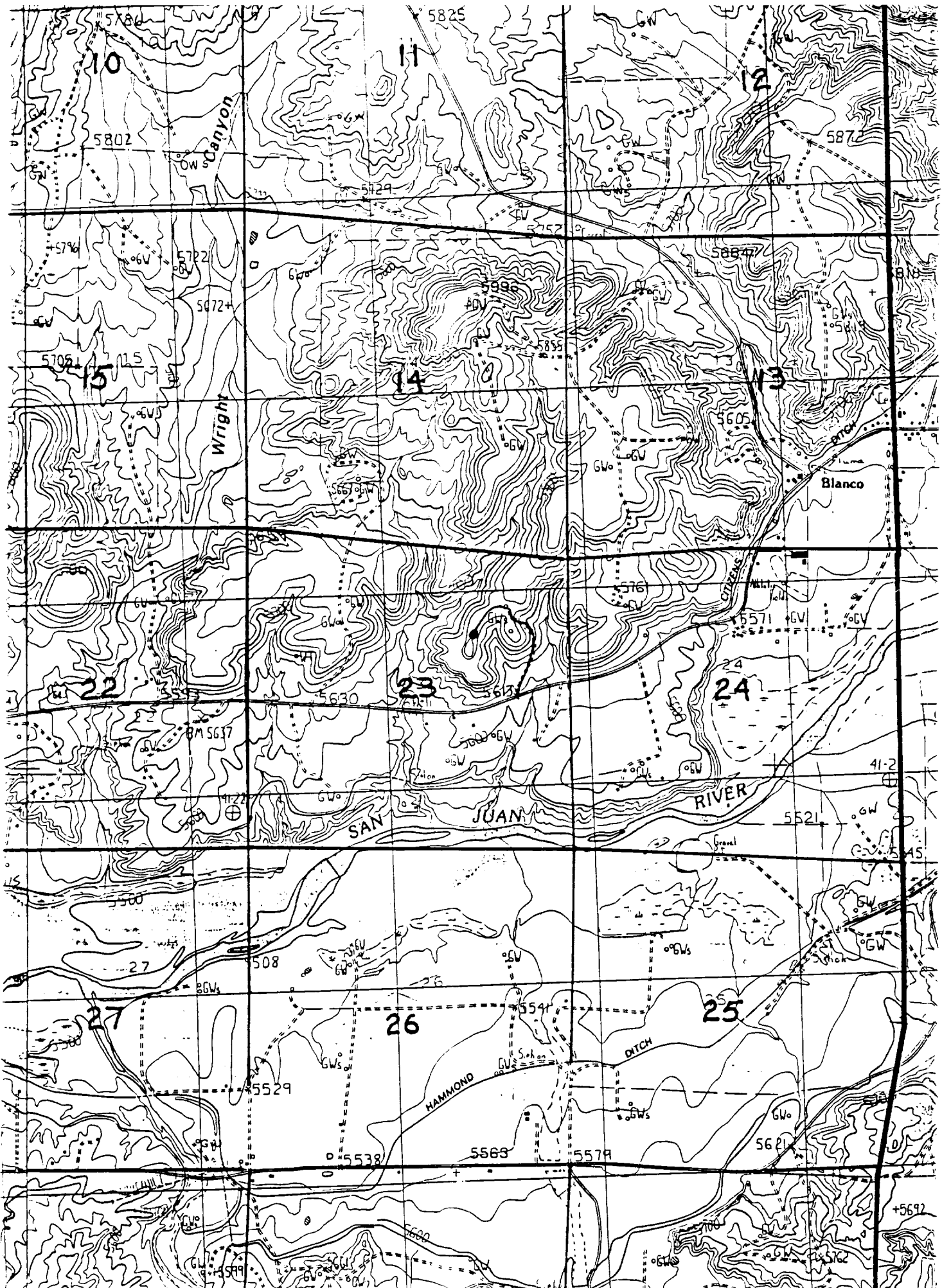
7" intermediate casing - lead with 96 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 304 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 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 23 is dedicated to this well.



HARE 216

59/1
-3