

30-045-27426

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL 1b. TYPE OF WELL GAS 2. OPERATOR SOUTHLAND ROYALTY CO. 3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499 4. LOCATION OF WELL 1000'S 790'W 14. DISTANCE IN MILES FROM NEAREST TOWN 13 MILES FROM AZTEC 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 790' 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE. 300' 21. ELEVATIONS (DF, FT, GR, ETC.) 6134'GL	LEASE NUMBER SF-078312 6. IF INDIAN, ALL. OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME HUBBARD 9. WELL NO. 100 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 11 T32N R12W NMPM 12. COUNTY SAN JUAN 13. STATE NM 16. ACRES IN LEASE 336.40 17. ACRES ASSIGNED TO WELL 336.40 19. PROPOSED DEPTH 2586' 20. ROTARY OR CABLE TOOLS ROTARY 22. APPROX. DATE WORK WILL START
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*SEE OPERATIONS PLAN

24. AUTHORIZED BY: [Signature]
REGULATORY AFFAIRS

7-10-89
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

Hold 6-104 For Signature
OK

NMOC

APPROVED
AS AMENDED

[Signature]
MANAGER

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-85

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator

Southland Royalty Company				Lease		Hubbard (SF-078312)		Well No.		
Unit Letter	Section	Township	Range	Country		100				
II	11	32 North	12 West	NMPM		San Juan				
Actual Footage Location of Well:										
1000		feet from the		South		line and		790		
Ground level Elev.		Producing Formation		Pool		feet from the		West		
6134		Fruitland Coal		Basin				line		
								Dedicated Acreage:		
								336.40		
										Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hectare 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 interest 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 interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

Peggy Bradfield
Signature

Peggy Bradfield

Printed Name
Regulatory Affairs

Position
Southland Royalty

Company

Date 17-10-89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes, 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 6-2-89

NEALE C. EDWARDS
Signature

NEALE C. EDWARDS
Professional Surveyor

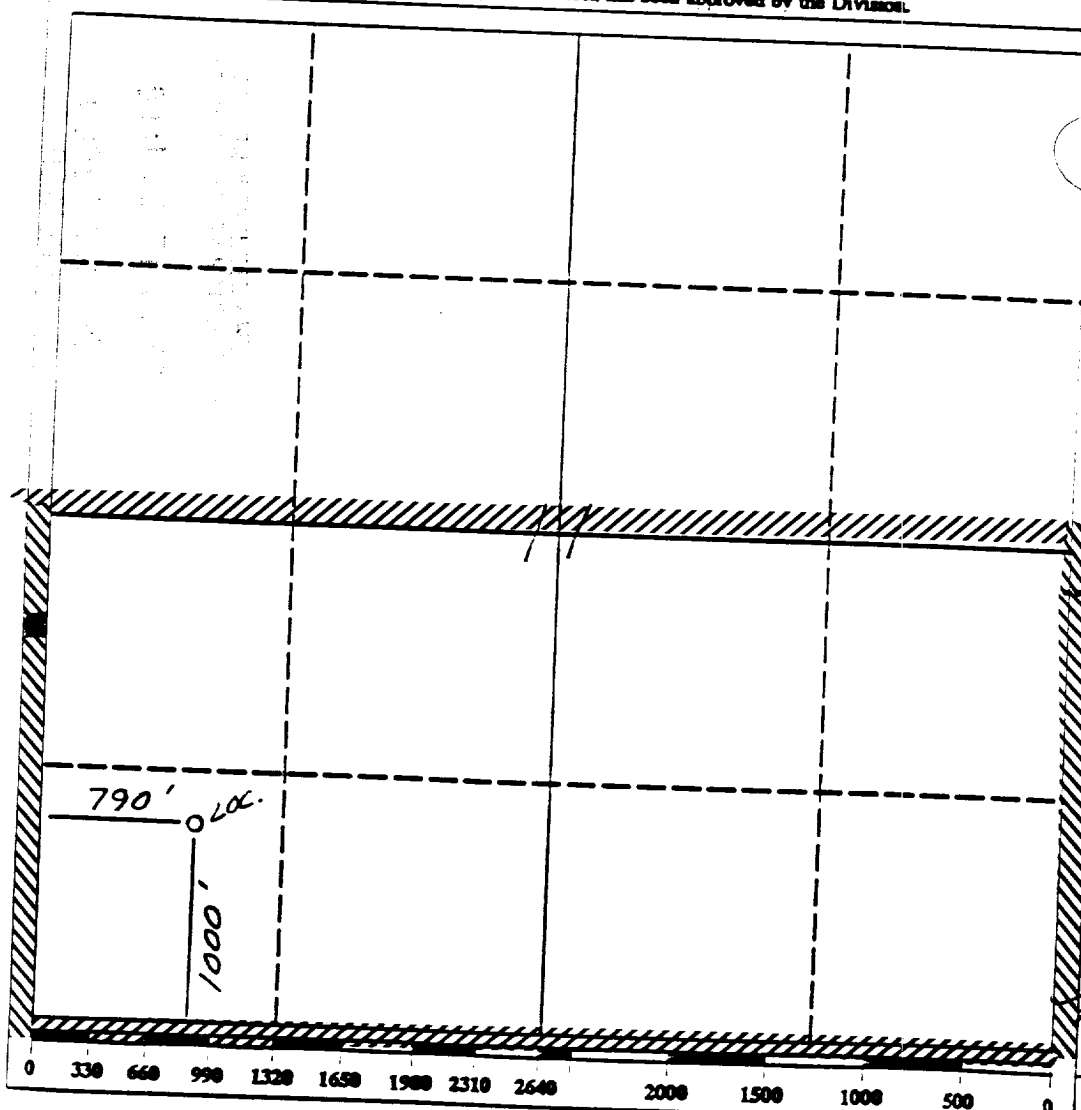
6857

REGISTERED LAND SURVEYOR

NEALE C. EDWARDS
Signature

Certificate No.

6857



Well Name: 100 HUBBARD
 Sec. 11 T32N R12W
 BASIN FRUITLAND COAL

1000'S 790'W
 SAN JUAN NEW MEXICO
 Elevation 6134'GL

Formation tops: Surface- ANIMAS
 Ojo Alamo- 583
 Kirtland- 593
 Fruitland- 2073
 Fruitland Coal Top- 2331
 Fruitland Coal Base- 2585
 Total Depth- 2586
 Pictured Cliffs- 2585

Logging Program: Mud logs from 2073 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2586	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-40
	7 7/8"	0 - 2586	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2586	2 3/8"	4.7#	J-55

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

5 1/2" production casing - float shoe on bottom.

Three centralizers run every other joint above shoe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly

Cementing:

8 5/8" surface casing - cement with 140 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 299 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. 694 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.

HUBBARD 100

-- 32-N
R-12-W

