

38-045-27466

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAIL ROOM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL
1b. TYPE OF WELL
GAS

RECEIVED
SEP 15 1989

5. LEASE NUMBER
SF-077651
6. IF INDIAN, ALL. OR TRIBE NAME

2. OPERATOR
SOUTHLAND ROYALTY OIL CON. DIV
DIST. 3

7. UNIT AGREEMENT NAME

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499

8. FARM OR LEASE NAME
RICHARDSON
9. WELL NO.
102

4. LOCATION OF WELL
865'S 1815'W

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL
11. SEC. T. R. M OR BLK.
N SEC. 10 T31N R12W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
8 miles from Aztec

12. COUNTY
SAN JUAN
13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST PROPERTY
OR LEASE LINE.
865'

16. ACRES IN LEASE
2400
17. ACRES ASSIGNED TO WELL
w/ 320.00

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR.
COMPL., OR APPLIED
FOR ON THIS LEASE.
600'

19. PROPOSED DEPTH
2580'
20. ROTARY OR CABLE TOOLS
ROTARY

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

21. ELEVATIONS (DF, FT, GR, ETC.)
6158'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

24. AUTHORIZED BY: [Signature]
REGULATORY AFFAIRS

8-22-89
DATE

PERMIT NO. _____ APPROVAL DATE _____

**APPROVED
AS AMENDED**

APPROVED BY _____ TITLE _____ DATE _____

SEP 13 1989

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-1

[Signature]
AREA MANAGER

NMOCD

Kit to Appropriates
not Office
as Lease - 4 copies
as Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

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 Richardson (SF-077651)		Well No. 102
Unit Letter N	Section 10	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 865 feet from the South line and 1815 feet from the West line					
Ground level Elev. 6158'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320.0 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 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 best of my knowledge and belief.

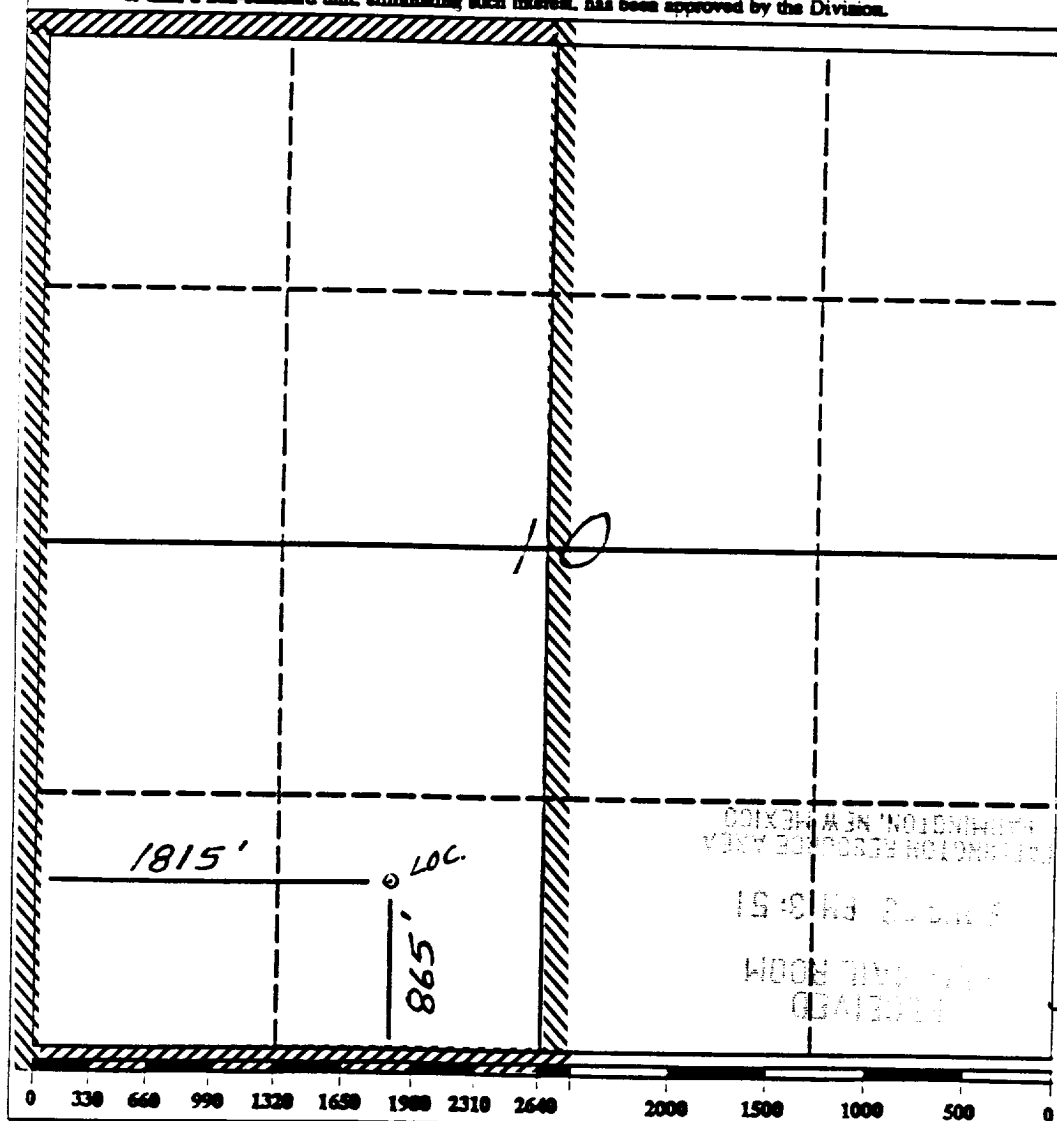
Signature
Peggy Bradfield
Printed Name
Regulatory Affairs
Position
Southland Royalty
Company
Date
8-22-89

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
Neale C. Edwards
Signature of Seal of Professional Surveyor

Certificate No.
6857



Well Name: 102 RICHARDSON
 Sec. 10 T31N R12W
 BASIN FRUITLAND COAL

865'S 1815'W
 SAN JUAN NEW MEXICO
 Elevation 6158'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 802
 Kirtland- 881
 Fruitland- 2255
 Fruitland Coal Top- 2361
 Fruitland Coal Base- 2570
 Total Depth- 2580
 Pictured Cliffs- 2591

Logging Program: Mud logs from 2255 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2580	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 - 2580	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2580	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# flocculent/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 258 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. 616 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.

