

21-145-27450

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

AUG 1 0 1989

OIL CON. DIV.

DIST. 3

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

5. LEASE NUMBER
SF-077652

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
EAST

9. WELL NO.
102

4. LOCATION OF WELL
1310'S 1490'W

RECEIVED

JUN 22 1988

OIL CON. DIV.

DIST. 3

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
SEC. 24 T31N R12W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
5 MILES FROM AZTEC

12. COUNTY
SAN JUAN

13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION 1310'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL
320.00

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 200'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS
2535' ROTARY

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.2
and appeal pursuant to 43 CFR 3166.4.

21. ELEVATIONS (DF, FT, GR, ETC.)
6068'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

6-7-89
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED
AS AMENDED

APPROVED BY _____ TITLE _____ DATE _____

JUN 19 1989

AREA MANAGER

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

Held C-104 FOR NSP

11/10/00

Submit to Asst. Comm.
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

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, Aztec, NM 88210

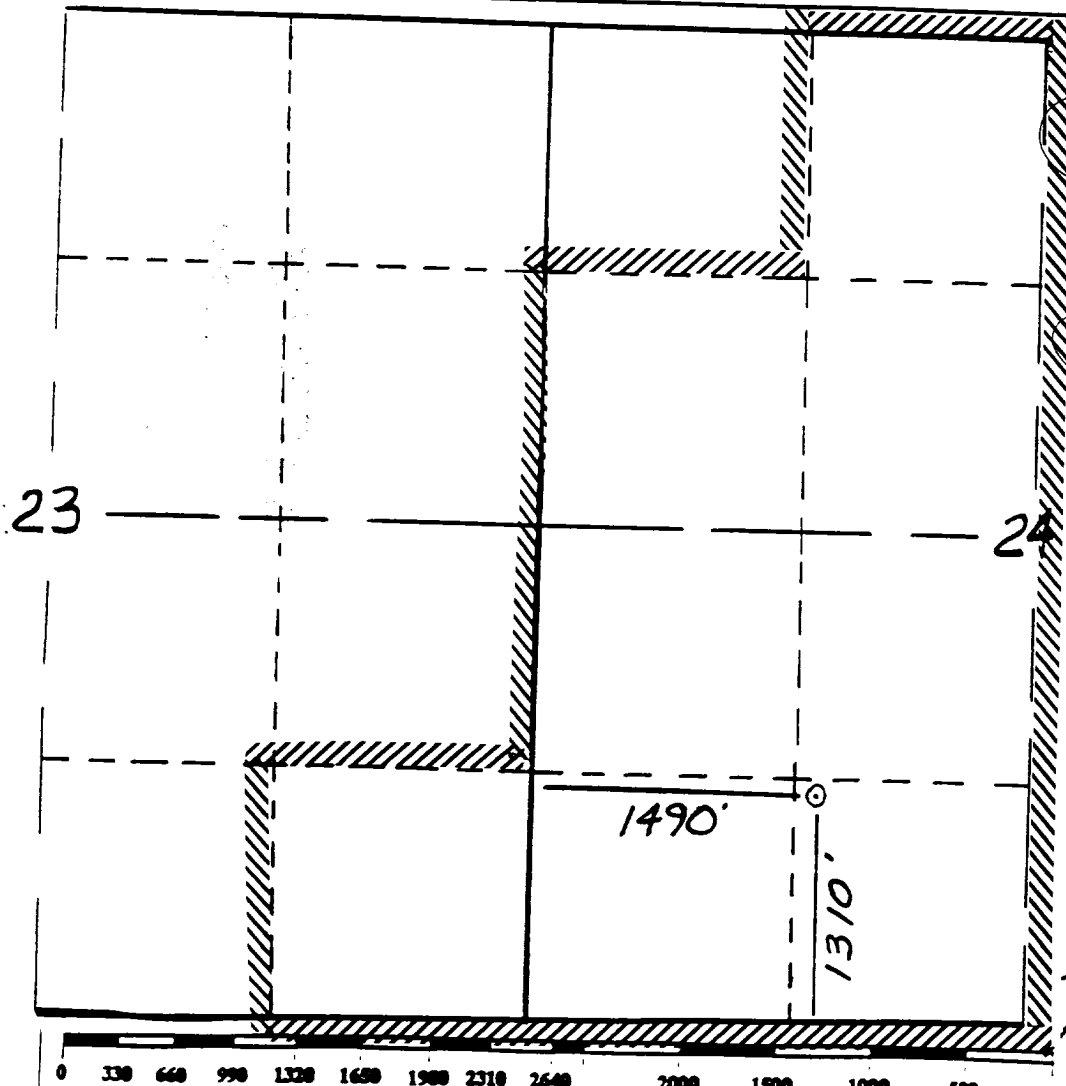
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company				Lease East		Well No. 102	
Unit Lease NP	Section 24	Township 31 North	Range 12 West	County San Juan		NMPM	
Actual Footage Location of Well: 1310 feet from the South line and 1490 feet from the West line							
Ground level Elev. 6068		Producing Formation Fruitland Coal		Pool Basin		Dedicated Acreage: 3.20 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.

Signature *R. G. Edwards*

Printed Name *REGGIE BRADFELD*

Position *REG. AFFAIRS*

Company *Southland Royalty Company*

Date *6-7-89*

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of 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 *3-6-89*

Signature *R. G. Edwards*

Professional Surveyor

6857

REGISTERED LAND SURVEYOR

Certificate No. 6857

Well Name: 102 EAST 1310'S 1490'W
 Sec. 24 T31N R12W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6068'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 915
 Kirtland- 950
 Fruitland- 2204
 Fruitland Coal Top- 2321
 Fruitland Coal Base- 2533
 Intermediate TD- 2301
 Total Depth- 2535
 Pictured Cliffs- 2549

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2301	Non-dispersed	8.4 - 9.1	30-60	no control
	2301 - 2535	Formation Water	8.4		no control

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 - 2301	7"	20.0#	K-55
	6 1/4"	2251 - 2535	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2535	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 casing - 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 155 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. 417 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.

BOP and Tests:

Surface to intermediate TD - 11" 3000 psi double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test rams to 2500 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning.

Addition Information:

The Fruitland coal formation will be completed.

This gas is dedicated.

The NE 1/4 NW 1/4, S/2 NW 1/4, SW 1/4 of section 24 and the SE 1/4 SE 1/4 of section 23 is dedicated to this well.

