

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-145-27467

RECEIVED
FEDERAL ROOM

SEP 13 1989

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

SEP 15 1989

OIL CON. DIV.

DIST. 3

5. LEASE NUMBER
SF-077648

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
DAVIS

9. WELL NO.
503

4. LOCATION OF WELL
1410'S 1950'W

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
SEC. 3 T31N R12W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
10 miles N. of Aztec

12. COUNTY
SAN JUAN

13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION 1410'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL
2198.30 S/ 320.00

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 400'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS
2585' ROTARY

THIS PERMIT IS ISSUED IN LIEU OF A PERMIT TO DRILL, DEEPEN, OR PLUG BACK. IT IS NOT A GUARANTEE OF THE BLM'S ABILITY TO OBTAIN NECESSARY RIGHTS OF WAY OR EASEMENTS. IT IS NOT A GUARANTEE OF THE BLM'S ABILITY TO OBTAIN NECESSARY RIGHTS OF WAY OR EASEMENTS.

21. ELEVATIONS (DF, FT, GR, ETC.)
6219'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

PERMIT NO. 30-145-27467-3
DATE OF PERMIT 8-23-89
APPROVED BY [Signature] DATE 8-23-89

24. AUTHORIZED BY: [Signature]
REGULATORY AFFAIRS

8-23-89
DATE

APPROVED

PERMIT NO. _____ APPROVAL DATE _____ AS AMENDED

APPROVED BY _____ TITLE _____ DATE _____

SEP 13 1989

AREA MANAGER

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

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 1-1-89

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

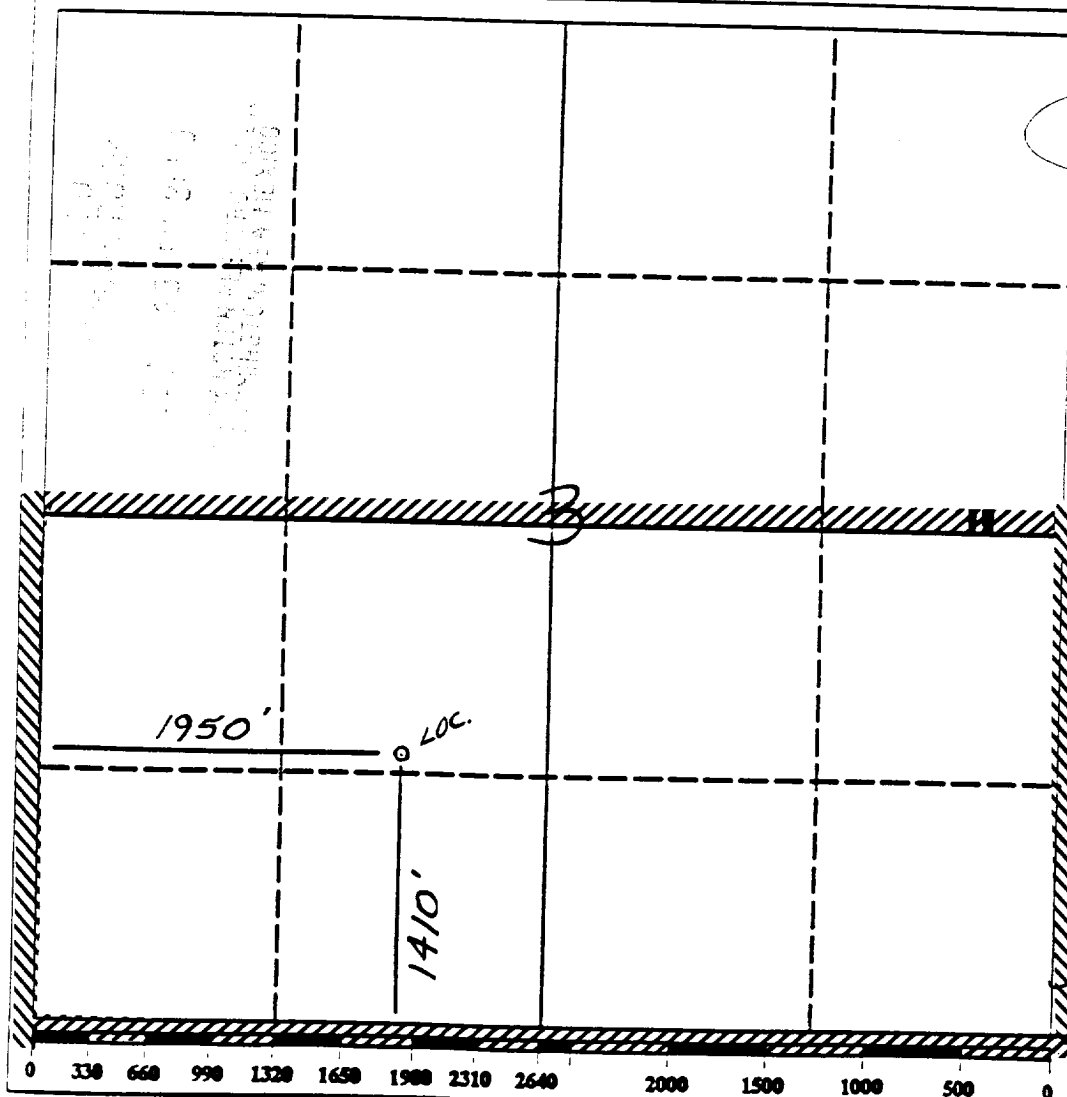
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company			Lease Davis (SF-077648)		Well No. 503
Unit Letter K	Section 3	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 1410 feet from the South line and 1950 feet from the West line					
Ground level Elev. 6219'		Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320.00 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, forced-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 Co

Company

8-23-89

Date

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: 503 DAVIS 1410'S 1950'W
 Sec. 3 T31N R12W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6219'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 864
 Kirtland- 895
 Fruitland- 2266
 Fruitland Coal Top- 2427
 Fruitland Coal Base- 2584
 Total Depth- 2585
 Pictured Cliffs- 2586

Logging Program: Mud logs from 2266 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2585	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 - 2585	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2585	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 248 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. 596 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.

