

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-045-27851

RECEIVED
MAY 29 1990
OIL CON. DIV.
DIST. 3

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-077652
1b. TYPE OF WELL GAS	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 COM
4. LOCATION OF WELL 1145'FNL 1245'FEL	9. WELL NO. 105
14. DISTANCE IN MILES FROM NEAREST TOWN 5 MILES FROM AZTEC	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION 1145' TO NEAREST PROPERTY OR LEASE LINE.	11. SEC. T. R. M OR BLK. SEC. 24 T31N R12W NMPM
16. ACRES IN LEASE 2514.580	12. COUNTY SAN JUAN
17. ACRES ASSIGNED TO WELL E/ 320.00	13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 300' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 2546'
20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (DF, FT, GR, ETC.) 6027'GL	22. APPROX. DATE WORK WILL START 4/27/90
23. PROPOSED CASING AND CEMENTING PROGRAM	
*SEE OPERATIONS PLAN	
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
24. AUTHORIZED BY:  REG. DRILLING ENGR.	DATE

PERMIT NO. _____ APPROVAL DATE _____ APPROVED
AS AMENDED
APPROVED BY _____ TITLE _____ DATE _____ MAY 25 1990

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160 for Ken Terrell
APD was originally submitted 10-06-89 and approved 11-06-89. AREA MANAGER
APD was rescinded 12-13-89.

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Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 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

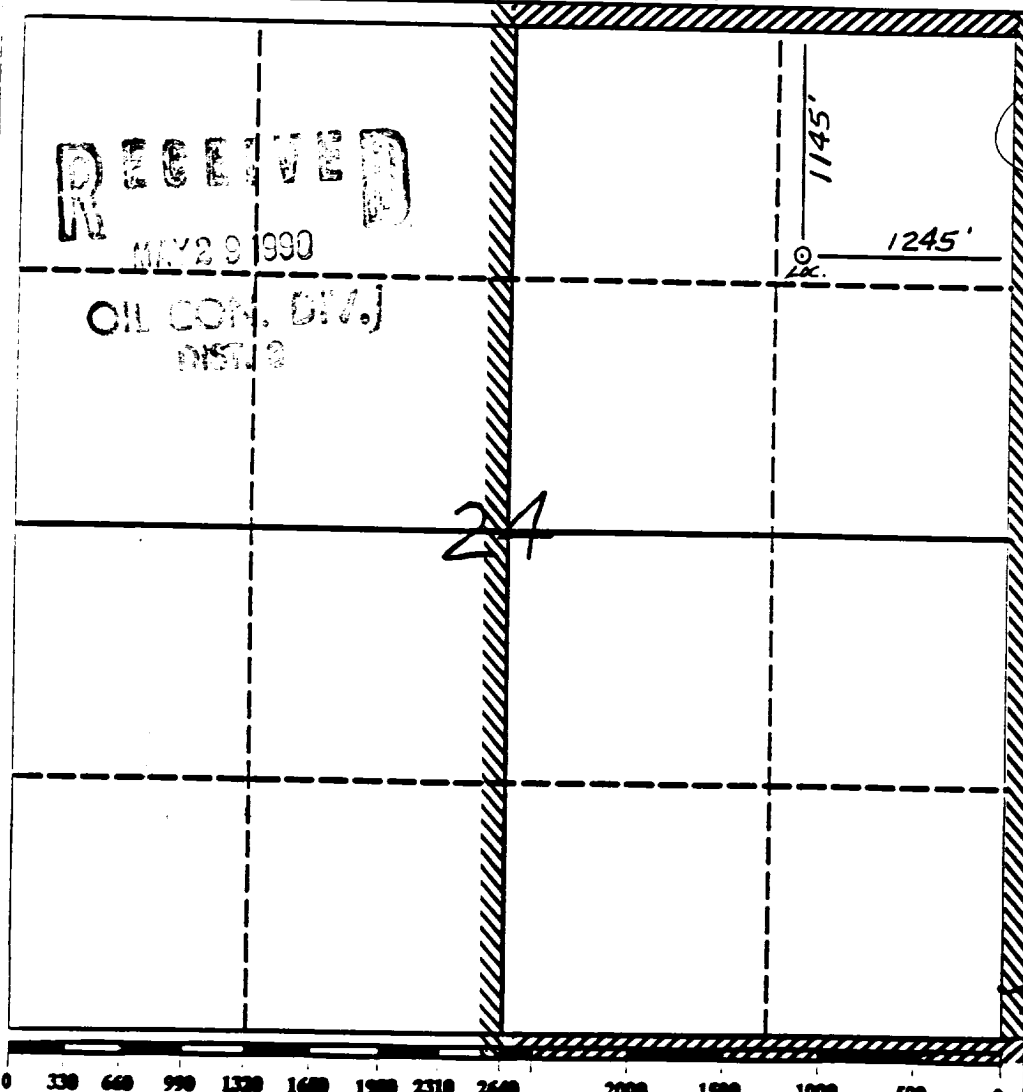
DISTRICT II
P.O. Drawer DD, Artesa, NM 88210

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 Com (SF-077652)		Well No. 105
Unit Lease A	Section 24	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 1145 feet from the North line and 1245 feet from the East line					
Ground level Elev. 6027'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or ink 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 will be obtained (communitization agreement)
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 Bradford
Signature

Peggy Bradford

Printed Name
Regulatory Affairs

Position
Southland Royalty

Company

Date
4-28-90

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or 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 Sealed Professional Surveyor
6857

REGISTERED LAND SURVEYOR
6857

Well Name: 105 EAST COM
 Sec. 24 T31N R12W
 BASIN FRUITLAND COAL

1145'FNL 1245'FEL
 SAN JUAN NEW MEXICO
 Elevation 6027'GL

Formation tops: Surface- ANIMAS
 Ojo Alamo- 913
 Kirtland- 949
 Fruitland- 2160
 Fruitland Coal Top- 2333
 Fruitland Coal Base- 2536
 Total Depth- 2546
 Pictured Cliffs- 2555

Logging Program: Mud logs from 2160 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2546	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 - 2546	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2546	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

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

Three centralizers run every other joint above shoe and four centralizers run every other joint across Ojo Alamo.

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

Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 400 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. 890 cu ft. of slurry, 100% excess to circulate to surface. WOC 12 hours.

Remaining existing roads
on Fee Lands



