

30-045-28491

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 1370'FNL 1605'FEL 14. DISTANCE IN MILES FROM NEAREST TOWN 15 MI. S/E OF BLOOMFIELD 15. DISTANCE FROM PROPOSED LOCATION 1370' TO NEAREST PROPERTY OR LEASE LINE. 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 450' COMPL., OR APPLIED FOR ON THIS LEASE. 21. ELEVATIONS (DF, FT, GR, ETC.) 6362'GL	5. LEASE NUMBER SF-077874 6. IF INDIAN, ALL. OR TR 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME HANKS 9. WELL NO. 500 <i>E/315.31</i> 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. <i>G</i> SEC. 12 T27N R10W 12. COUNTY SAN JUAN 13. STATE NM 16. ACRES IN LEASE <i>2585.94</i> 17. ACRES ASSOCIATED WITH LEASE 315.31 19. PROPOSED DEPTH 2295' 20. ROTARY OR ROTARY 22. APPROX. DATE WORK V
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23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

RECEIVED
JAN 04 1991

24. AUTHORIZED BY: *Charles H. JWC* OIL CON. DIV. *10/12/90*
REG. DRILLING ENGR. DIST. 3 DATE

PERMIT NO. _____ APPROVAL DATE **APPROVED**
AS AMENDED

APPROVED BY _____ TITLE _____ **DEC 27 1990**
AREA MANAGER

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 5100-5.

NMOOD

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 Benito 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 Hanks		Well No. 500
Unit Letter G	Section 12	Township 27 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 1370 feet from the North line and 1605 feet from the East line					
Ground level Elev. 6362'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 315.31 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.?

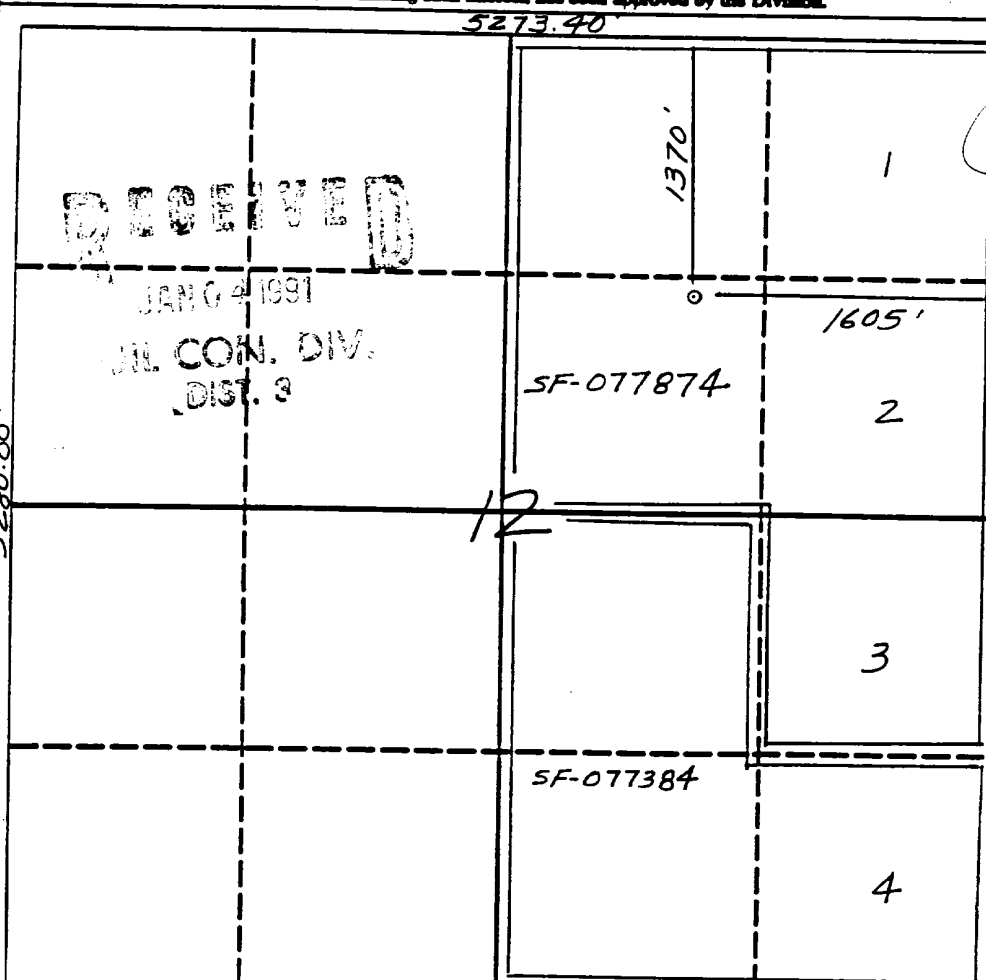
☐ Yes

☐ 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.

Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

Southland Royalty Co

Company

10-11-90

Date

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.

9-12-90

Date Surveyed

Signature

Professional Seal
NEW MEXICO
6857
6857
REGISTERED LAND SURVEYOR

Certificate
Neale C. Edwards

Well Name: 500 HANKS 1370'FNL 1605'FEL
 Sec. 12 T27N R10W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6362'GL

Formation tops: Surface- Nacimiento

Ojo Alamo-	1325	
Kirtland-	1475	
Fruitland-	2125	
Fruitland Coal Top-	2165	
Fruitland Coal Base-	2285	Total Depth- 2295
Pictured Cliffs-	2287	

Logging Program: Mud logs from 2125 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no contro
	200 - 2295	Non-dispersed	8.4 - 9.5	30-60	no contro

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 - 2295	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2295	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. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1475'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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 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 355 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. 803 cu ft. of slurry, 100% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

GEOLOGICAL SURVEY

