

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-078487
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 HILL
4. LOCATION OF WELL 1665'N 810'E	9. WELL NO. 3R
10. FIELD, POOL, OR WILDCAT BLANCO MESA VERDE	11. SEC. T. R. M OR BLK. SEC. 10 T29N R08W NMPM
14. DISTANCE IN MILES FROM NEAREST TOWN 3 MILES NW OF GOBERNADOR	12. COUNTY SAN JUAN
	13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION 810' TO NEAREST PROPERTY OR LEASE LINE.	16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 307.04 E/ 320.00
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 1300' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 5700' ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 6281'GL	22. APPROX. DATE WORK WILL START
23. PROPOSED CASING AND CEMENTING PROGRAM	

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: [Signature]
REG. DRILLING ENGR.

2/15/90
DATE

PERMIT NO.

RECEIVED

APPROVAL DATE

**APPROVED
AS AMENDED**

APPROVED BY

MAR 16 1990

TITLE

DATE

MAR 12 1990

NOTE: THIS FORM IS ISSUED IN LIEU OF US BLM FORM 3160-2.

[Signature]
AREA MANAGER

Submit to Appropriate
District Office
State Leases - 4 copies
For 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, 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 Co.			Lease Hill		Well No. 3R
Unit Letter H	Section 10	Township 29 North	Range 8 West	County NMNM	San Juan
Actual Footage Location of Well:					
1665 feet from the North line and		810 feet from the East line			
Ground level Elev. 6281'	Producing Formation Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage 320.00 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or ink 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 commutation, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the covenants 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 commutation, unitization, force-pooling, or otherwise) or until a non-consolidated 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
Peggy Bradfield
Position
Regulatory Affairs
Company
Southland Royalty Co.
Date
1-19-90

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 supervision, and that the same is true correct to the best of my knowledge and belief.

Date Surveyed
Noble C. Edwards
Signature of Surveyor
Professional Surveyor
857

REGISTERED LAND SURVEYOR
6857

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

OPERATIONS PLAN

Well Name - HILL #3R

Date: 13-Feb-90

I. Location: 1665' FNL, 810' FEL, Sec. 10, T29N, R8W

San Juan County, NM

Field: BLANCO MESA VERDE

Elevation: 6281 'GL

II. Geology:

A. Formation Tops:	San Jose	Surface	Chacra	3994 '
	Ojo Alamo	1934 '	Mesa Verde	4614 '
	Kirtland	2094 '	Menefee	4794 '
	Fruitland	2664 '	Pt. Lookout	5194 '
	Pictured Cliffs	2984 '	Intermediate TD	3300 '
	Lewis	3124 '	Total Depth	5700 '

B. Logging Program: Inter Depth logs: NONE
Total Depth Logs: GR-IND, D, N, TEMP.

C. Coring: None

D. Natural Gauges: 3650', 3950', 4500', 4700', 4750', 5150', 5250', 5700'. Also gauge any noticeable increase in gas. Record all gauges in IADC daily drilling report and on MERIDIAN OIL morning report.

III. Drilling:

A. Mud Program: Mud from surface to ITD@ 3300 '. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg Size	Weight	Grade
	12 1/4"	200 '	9 5/8"	32.3#	H-40
	8 3/4"	3300 '	7"	20.0#	K-55
	6 1/4"	5700 '	4 1/2"	10.5#	K-55

B. Float Equipment: 9 5/8" surface casing - Saw Tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Five centralizers run every other joint above shoe. Run float two joints above the guide shoe.

4 1/2" production casing - liner hanger with neoprene packoff. Cement nose guide shoe and float collar run above a 6' shoe joint.

C. Tubing: 5700 ' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a seating nipple one joint off bottom and expendable check valve on bottom.

D. Wellhead Equipment: 9 5/8" x 11" 2000 psi xmas tree assembly.

HILL # 3R
1665' FNL, 810' FEL
SEC. 10 - T29N - R8W
SAN JUAN Co. NM
1400' NEW CONSTRUCTION
MAP # 1

Existing ROW

1400' NEW
CONSTRUCTION

BLM
ROW

SF078487

HILL # 3R
BLM ROW

Sec 10: NE1/4 500'
3: SE1/4 1500'
NE1/4 200'