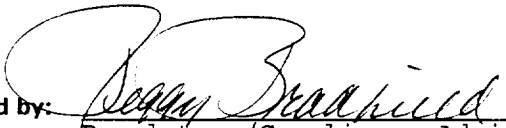


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078120A Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES 14538 Oil & Gas Company	7. Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 7360 Newberry 9. Well Number 12M	
4. Location of Well 970' FSL, 1125' FEL Latitude 36° 55.4, Longitude 108° 05.7	10. Field, Pool, Wildcat 72319 Blanco MV/Basin Dk 71599 11. Sec., Twn, Rge, Mer. (NMPM) p Sec 4, T-31-N, R-12-W API # 30-039- 30-045-24568	
14. Distance in Miles from Nearest Town 6 miles to Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 970'	17. Acres Assigned to Well m.v. 320 S/2 320.37 E/2 DK:	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 3000'		
19. Proposed Depth 7230'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6104' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"	
24. Authorized by:  Regulatory/Compliance Administrator	2112/98 Date	

PERMIT NO. _____

APPROVAL DATE

MAR 24 1998

APPROVED BY /s/ Duane W. Spencer

TITLE _____

DATE **MAR 24 1998**

Archaeological Report to be submitted by Arboles Contract Arch
Threatened & Endangered Species Report submitted by Ecosphere

NMOC

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

1:09 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-24568	*Pool Code 71599, 72319	*Pool Name Basin Dakota, Blanco Mesaverde
*Property Code 7360	*Property Name NEWBERRY	*Well Number 12M
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	*Elevation 6104'

10 Surface Location

UL or lot no P	Section 4	Township 31N	Range 12W	Lot Idn	Feet from the 970	North/South line South	Feet from the 1125	East/West line East	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres MV-S/320 DK-E/320.37									
13 Joint or Infill									
14 Consolidation Code									
15 Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	2640.66'	2646.60'	17 OPERATOR CERTIFICATION
1269.84'	4	3	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
1302.84'	RECEIVED MAR 26 1998 OIL CON. DIV. DIST. 3	2	Signature Peggy Bradfield
		1	Printed Name Regulatory Administrator
			Title 2/12/98
			Date
			18 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 belief.
			DECEMBER 10, 1997
			Date of Survey
			Signature and Seal of Professional Surveyor
			NEALE C. EDWARDS NEW MEXICO 6857
			Certificate Number

OPERATIONS PLAN

Well Name: Newberry #12M
Location: 970' FSL, 1125' FEL Sec 4, T-31-N, R-12-W
San Juan County, NM
Latitude 36° 55.4, Longitude 108° 05.7
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6104' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1263'	
Ojo Alamo	1263'	1328'	aquifer
Fruitland	1328'	2521'	gas
Pictured Cliffs	2521'	2673'	gas
Lewis	2673'	3233'	gas
Intermediate TD	2773'		
Huerfanito Bentonite	3233'	3318'	gas
Chacra	3318'	4178'	
Massive Cliff House	4178'	4318'	gas
Menefee	4318'	4868'	gas
Massive Point Lookout	4868'	5301'	gas
Mancos	5301'	6263'	
Gallup	6263'	6946'	gas
Greenhorn	6946'	7010'	gas
Dakota	7010'		gas
TD (4 1/2" liner)	7230'		

Logging Program:

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/Dk

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200-2773'	LSND	8.4-9.0	30-60	no control
2773-7230'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 2773'	7"	20.0#	J-55
6 1/4"	2673' - 7230'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7230' 2 3/8" 4.70# EUE

BURLINGTON RESOURCES OIL & GAS COMPANY NEWBERRY #12M

970' FSL & 1125' FEL, SECTION 4, T31N, R12W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

1500' BLM NEW CONSTRUCTION
700' SE/SE SECTION 4, T31N, R12W
800' NE/SE SECTION 4, T31N, R12W

