# **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

a.	Type of Work	5. Lease	
	DRILL		SF-078707
		Unit R	Reporting Number
lb.	Type of Well GAS	6. If Indi	an, All. or Tribe
		FEB 2001	Agreement Name
2.	Operator BURLINGTON RESOURCES	il & Gas Company	Agreement Name
3.	Address & Phone No. of Opera		or Lease Name
	PO Box 4289, Farming	gton, NM 87499	Duke
		9. Well I	Number #100
	(505) 326-9700		#100
4.	Location of Well	10. Field	I, Pool, Wildcat
₹.	885'FNL, 1355'FEL		Basin Fruitland Coal
			, Twn, Rge, Mer. (NMPM)
	Latitude 36° 54.3'N, 1	Longitude 108° 09.0'W  API# 3	Sec. 13, T-31-N, R-13- 0-045- 3 0 4 7 6
14.	Distance in Miles from Neares	st Town 12. Cou	nty 13. State
• • •	8 miles from La Plata		San Juan NM
15.		ition to Nearest Property or Lease Line	
16.	885' Acres in Lease	17. Acr	res Assigned to Well 320 E/2
18.	Distance from Proposed Loca	ation to Nearest Well, Drlg, Compl, or Applied	for on this Lease
10.		1 mile	
	No BRO&G well within		iani ar Cahla Taale
19.	No BRO&G well within Proposed Depth	s section is subject to testimber and 20. Rot coduced review pursuant to 40 CFR 3165.3 special pursuant to 43 CFR \$165.4.	tary or Cable Tools Rotary
	No BRO&G well within Proposed Depth	induced resolute profession to AS CAR 3165.3  Supposed purposent to AS CAR \$165.4.	
19.	No BRO&G well within Proposed Depth 2129'  and	induced resolute profession to AS CAR 3165.3  Supposed purposent to AS CAR \$165.4.	Rotary
19. 21.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR	epidurei review purevant to 43 CFR 3165.3  speed purevant to 43 CFR \$165.4.  22. Ap	Rotary  prox. Date Work will Start
19.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.)	podural review pursuant to 43 CFR 3165.3  special pursuant to 43 CFR \$165.4.  22. Applicating Program  ORIGINAL OFFICIAL	Prox. Date Work will Start  IS AUTHORIZED ARE
19. 21.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR  Proposed Casing and Cemen	neture review pursuant to 43 CFR 3165.3  ***********************************	Rotary  prox. Date Work will Start  IS AUTHORIZED ARE  ANCE WITH ATTACHED
19. 21.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR  Proposed Casing and Cemen	podural review pursuant to 43 CFR 3165.3  special pursuant to 43 CFR \$165.4.  22. Applicating Program  ORIGINAL OFFICIAL	Prox. Date Work will Start  IS AUTHORIZED ARE ANCE WITH ATTACHED MENTS:
19. 21. 23.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR  Proposed Casing and Cemen See Operations Plan	neture review pursuant to 43 CFR 3165.3  ***********************************	Rotary  prox. Date Work will Start  IS AUTHORIZED ARE  ANCE WITH ATTACHED
19. 21.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR  Proposed Casing and Cemen See Operations Plan  Authorized by:	neture review pursuant to 43 CFR 3165.3  ***********************************	Prox. Date Work will Start  IS AUTHORIZED ARE ANCE WITH ATTACHED MENTS:
19. 21. 23.	No BRO&G well within Proposed Depth 2129'  Elevations (DF, FT, GR, Etc.) 5808' GR  Proposed Casing and Cemen See Operations Plan  Authorized by:	DRILLING CHERAL MADURES  DRILLING CHERATOR SUBJECT TO CONTROL  "GENERAL MADURES  ALL  LUL  TOTAL  TO	Prox. Date Work will Start  IS AUTHORIZED ARE ANCE WITH ATTACHED  ILLUSTRATE  ILLUSTRATE

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Arras me

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Fee Lease — 4 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410
DISTRICT IV
PO Box 2088, Santa Fe, NM 87504—2088

☐ AMENDED REPORT

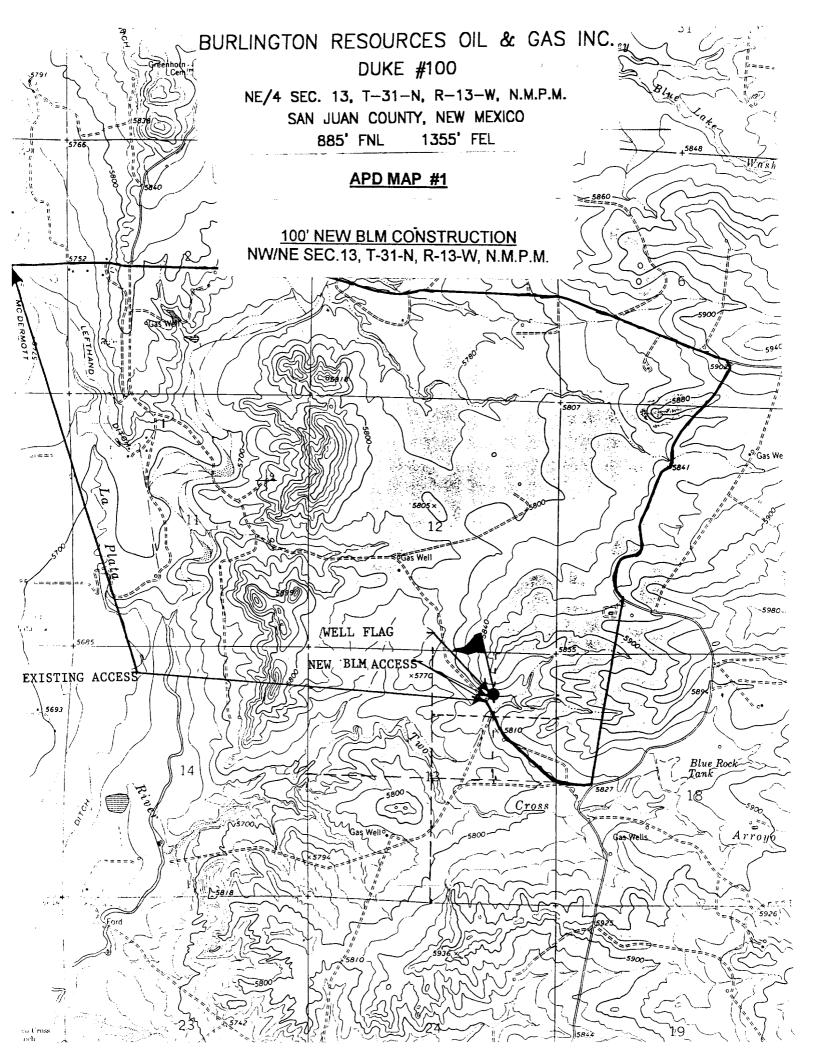
	WELL LOCATION AND	MONEMOL BEBIOTHER	
API Number	<sup>2</sup> Pool Code 71629	Pool Name Basin Fruitland Coal	
30-045- 50 4 / 6	<u></u>	perty Name	<sup>8</sup> Well Number
27468	D	100	
7000ID No	*Ope	erator Name	* Elevation

WELL LOCATION AND ACREAGE DEDICATION PLAT

7 OGRID No. 5808' 14538 BURLINGTON RESOURCES OIL & GAS INC. <sup>10</sup> Surface Location East/West line North/South line Feet from the County Feet from the Lot Idn UL or lat no. Section Township Range SAN JUAN 1355 **EAST NORTH** 31-N 13-W 885 В 13 Location If Different From Surface 11 Bottom Hole East/West line North/South line Feet from the County Feet from the Lot Idn Range Township UL or lot no. Section 15 Order No. 4 Consolidation Code 13 Joint or Infill <sup>2</sup> Dedicated Acres E/320

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	FD 3 1/2" BLM 1952 B.C.		N 88-42-45 W 2625.81(M)	FD 3 1/2" BLM 1952 B.C.	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is
			885,		true and complete to the best of my knowledge and belief
			LAT: 36'54.3' N LONG: 108'09.1' W	1325, <b>8</b> (M) 1887 (M) 1987	
		1		S 00-4-	Signature Cale
					Peggy Cole Printed Nome Regulatory Supervisor Title
				FD 3 1/2" BLM 1952 B.C.	12 - 8 - 00 Date
			USA SF	7-078707	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
				1	Date of Survey
			1		Signature and seeing Professional Surveyor
					Joy Christing the
			1		Cartificate Number



## OPERATIONS PLAN

Well Name: Duke #100

885'FNL, 1355'FEL Section 13, T-31-N, R-13-W Location:

Latitude 36° 54.3'N, Longitude 108° 09.0'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5808'GR

Contents Top Bottom Formation: 1766' Surface Kirtland 1766' 2116' gas Fruitland 2116' 2129' gas Pictured Cliffs 2129' Total Depth

Logging Program: Platform Express from TD to surface.

Mudlog: 2 Man unit from surface csg to TD.

Coring Program: none

Mud Program:

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

Wt. Grade Depth Interval Csg.Size Hole Size 20.0# J-55 0' - 120' 8 3/4" 10.5# K-55 4 1/2" 0' - 2129' 6 1/4" Tubing Program: 4.7# J-55 2 3/8" 0' - 2129'

Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 ½" production casing - float shoe on bottom. Three centralizers run every other joint above shoe.

Wellhead Equipment: 7" x 4 ½" x 2 3/8" x 11" 2000 psi xmas tree assembly.

#### Cementing:

7" surface casing - cement with 46 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi/30 minutes.

4 ½" production casing - lead w/129 sacks Class "B" with 37 #/sx blended silicalite, 3% bentonite, and 4% calcium chloride. Tail with 90 sacks 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride, 1/4 #/sack flocele, 5 pps gilsonite (437 cu.ft., 100 % excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

#### BOP and tests:

Surface to TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600#/30 min.

Completion - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

### Additional information:

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is 1000 psi.
- \* This gas is dedicated.
- \* The east half of section 13 is dedicated to the Fruitland Coal.

Date:	12/20/06	Drilling Engineer:	21.	H. les
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