

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-078134 Unit Reporting Number
1b. Type of Well GAS	If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> 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 Crandell SRC 9. Well Number 1B
4. Location of Well 1500' FNL, 1975' FEL Latitude 36° 53.2, Longitude 107° 55.3	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) G Sec. 19, T-31-N, R-10-W API # 30-045- 30004
14. Distance in Miles from Nearest Town 5 miles from Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1500'	
16. Acres in Lease	17. Acres Assigned to Well 318.54E/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1100'	
19. Proposed Depth 5260'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5915' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u><i>Regan Cole</i></u> Regulatory/Compliance Administrator	<u>10-2-99</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ Charlie Beecham TITLE \_\_\_\_\_ DATE FEB - 4

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.

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BMOC

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

District II  
PO Drawer DD, 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30004		*Pool Code 72319	*Pool Name Blanco Mesaverde
*Property Code 18503	*Property Name CRANDELL SRC		*Well Number 1B
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 5915'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	19	31N	10W		1500	NORTH	1975	EAST	SAN JUAN

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres E/318.56		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

<sup>16</sup> 1304.16'		<sup>16</sup> 1335.18'		<sup>16</sup> 2624.15'		<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature: <i>Peggy Bradfield</i> Printed Name: Peggy Bradfield Regulatory Administrator Title: <i>10-2-99</i> Date: <i>10-2-99</i>	
LOT 1		LOT 6		LOT 5			
LOT 2		LOT 7		LOT 8		LOT 9	
LOT 3		LOT 12		LOT 11		LOT 10	
LOT 13		LOT 14		LOT 15		LOT 16	
1291.62'		1337.16'		2674.32'		<sup>18</sup> 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.  SEPTEMBER 9, 1999 Date of Survey Signature and Seal: <i>NEALE C. EDWARDS</i> Certificate: 6857	

## OPERATIONS PLAN

Well Name: Crandell SRC #1B  
Surface Location: 1500' FNL, 1975' FEL, Section 19, T-31-N, R-10-W  
San Juan County, New Mexico  
Latitude 36° 53.2, Longitude 107° 55.3

Formation: Blanco Mesa Verde  
Elevation: 5915' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1187'	aquifer
Ojo Alamo	1187'	1262'	aquifer
Kirtland	1262'	2013'	gas
Fruitland	2013'	2612'	gas
Pictured Cliffs	2612'	2754'	gas
Lewis	2754'	3336'	gas
<b>Intermediate TD</b>	<b>2854'</b>		
Mesa Verde	3336'	3690'	gas
Chacra	3690'	4330'	gas
Massive Cliff House	4330'	4419'	gas
Menefee	4419'	4860'	gas
Point Lookout	4860'		gas
<b>Total Depth</b>	<b>5260'</b>		

### Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD  
Mud Logs/Coring/DST - none

### Mud Program:

<u>Interval- MD</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 2854'	LSND	8.4-9.0	30-60	no control
2854- 5260'	Air/Mist	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>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2854'	7"	20.0#	J-55
6 1/4"	2754' - 5260'	4 1/2"	10.5#	J-55

Tubing Program: 0' -5260' 2 3/8" 4.7# J-55

### BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).  
After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

1500' FNL & 1975' FEL, SECTION 19, T31N, R10W, N.M.P.M.  
SAN JUAN COUNTY, NEW MEXICO

700' NEW BLM CONSTRUCTION  
NW/NE SECTION 19, T31N, R10W.

