

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 NM-055563 Unit Reporting Number
1b. Type of Well GAS	6. 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 Largo Federal 9. Well Number 100
4. Location of Well 1320' FSL, 1230' FWL Latitude 36° 40.75, Longitude 107° 46.47	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) L Sec. 34, T-29-N, R-9-W API # 30-045-30509
14. Distance in Miles from Nearest Town 6.3 miles from Blanco	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1230'	17. Acres Assigned to Well 320 W/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 276'	
19. Proposed Depth 2173' — This action is subject to technical and procedural review pursuant to 43 CFR 3165.3, and appeal pursuant to 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5794' 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: <u>[Signature]</u> Regulatory/Compliance Supervisor	<u>12-15-00</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ Lee Ottoni TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

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

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. 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

<sup>1</sup> API Number 30-045-30509		<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 7249	<sup>5</sup> Property Name LARGO FEDERAL		<sup>6</sup> Well Number 100
<sup>7</sup> GRID No. 14538	<sup>8</sup> Operator Name BURLINGTON-RESOURCES-OIL & GAS INC.		<sup>9</sup> Elevation 5794

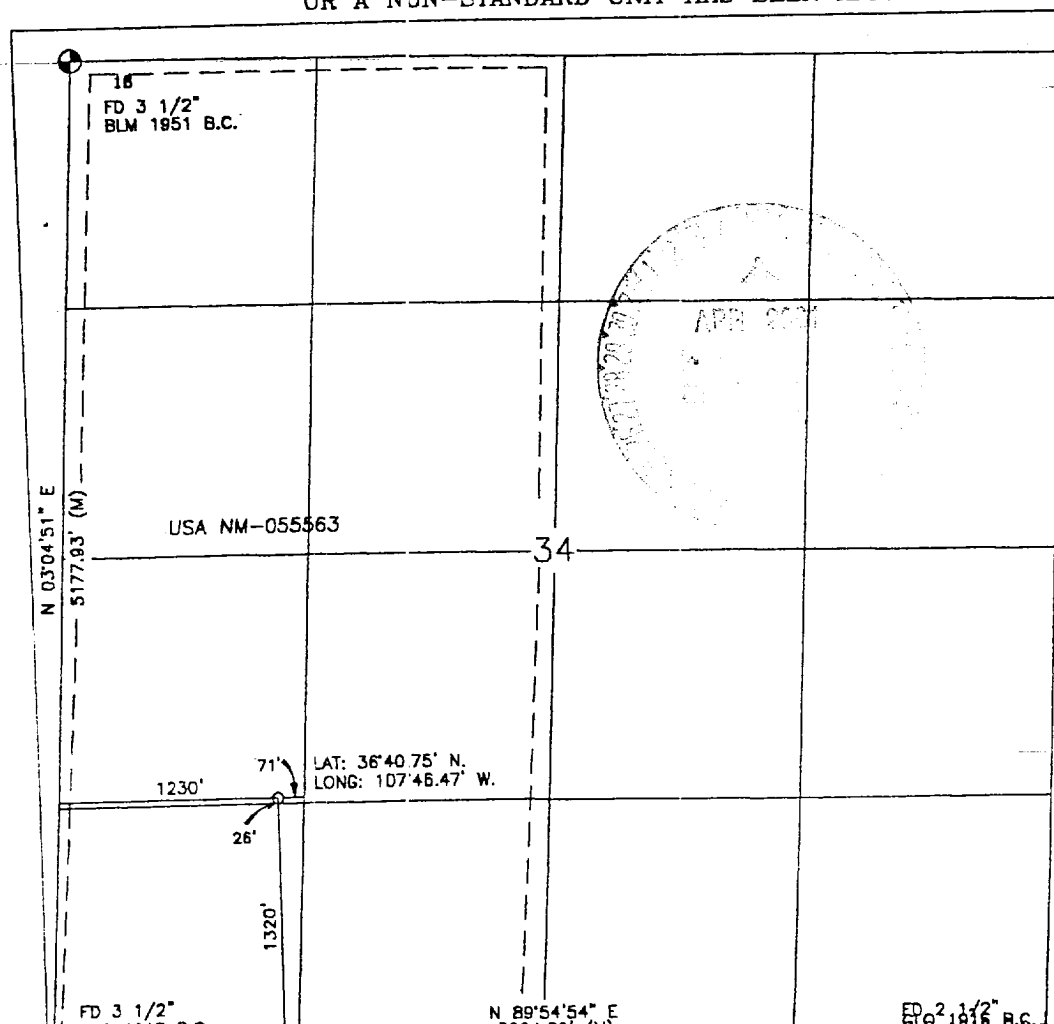

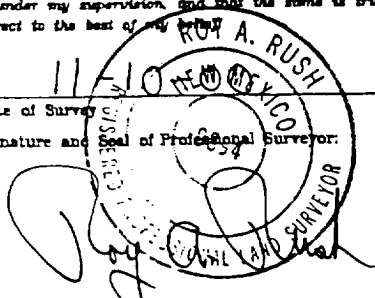
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	34	29-N	9-W		1320	SOUTH	1230	WEST	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 W/ 320			<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

	<p>16 FD 3 1/2" BLM 1951 B.C.</p>	<p>17 <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature Peggy Cole Printed Name Regulatory Supervisor Title 12-18-00 Date</p>
	<p>18 <b>SURVEYOR CERTIFICATION</b> 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.</p> <p>11-10-00 Date of Survey Signature and Seal of Professional Surveyor:  8894 Certificate Number</p>	

**NO NEW BLM CONSTRUCTION**  
**NW/SW SECTION 34, T29N, R9W**

## NO NEW BLM CONSTRUCTION

NW/SW SECTION 34, T29N, R9W

CAÑON

LARGO  
SIGN

EXISTING ACCESS

WELL FLAG

29N

28N

## OPERATIONS PLAN

**Well Name:** Largo Federal #100  
**Location:** 1320' FSL, 1230' FWL, Section 34, T-29-N, R-9-W  
Latitude 36° 40.75, Longitude 107° 46.47  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 5794' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1062'	
Ojo Alamo	1062'	1188'	aquifer
Kirtland	1188'	1903'	gas
Fruitland	1903'	2126'	gas
Pictured Cliffs	2126'		gas
<b>Total Depth</b>	<b>2173'</b>		

**Logging Program:** Platform Express - TD to surface  
**Mudlog:** 2 man unit from Ojo Alamo to TD

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2173'	Non-dispersed	8.4-9.5	30-60	no control

**Casing Program:**

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
8 3/4"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 2173'	4 1/2"	10.5#	K-55

**Tubing Program:**

0 - 2173'	2 3/8"	4.7#	J-55
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**Float Equipment:** 7" surface casing - saw tooth guide shoe.  
Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - guide shoe and self-fill float collar.  
Three centralizers run every fourth joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1188'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 7" x 4 1/2" 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 pps Flocele and 3% calcium chloride (54 cu ft of slurry, includes 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - lead w/133 sx Class "B" cmt with 37# pps blended silicalite, 3% bentonite, and 4% calcium chloride. Tail w/90 sx Class "B" 50/50 Pozmix w/2% calcium chloride, 2% gel, 5 pps Gilsonite, 1/4 pps flocele (446 cu ft of slurry, includes 100% excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excel 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 psi/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 to 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 west half of section 34 is dedicated to this well.

  
\_\_\_\_\_  
Drilling Engineer

12/20/00  
\_\_\_\_\_  
Date