

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-4453 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 Carson SRC 9. Well Number 100	
4. Location of Well 1055' FSL, 1415' FWL Latitude 36° 50.2, Longitude 107° 18.8	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 1, T-30-N, R-5-W API # 30-039-26361	
14. Distance in Miles from Nearest Town 10 miles from Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1055'	17. Acres Assigned to Well 268.34 S/2	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 150'	
19. Proposed Depth 3345' 3356 Re N.O. 11/15/00 CEH	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6571' GR	22. Approx. Date Work will Start 2-3-00	
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 Administrator	Date	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ Jim Lovato TITLE \_\_\_\_\_ DATE 10-10-00

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.

[Signature]

[Signature]

11/00

Form C-102  
Revised February 21, 1994  
Instructions on back  
appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

Santa Fe, NM 87504-2088

AMENDED REPORT


  
 Certificate Number **6857**

## OPERATIONS PLAN

**Well Name:** Carson SRC #100  
**Location:** 1055' FSL, 1415' FWL, Section 1, T-30-N, R-5-W  
Latitude 36° 50.2, Longitude 107° 18.8  
Rio Arriba County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6571' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2763'	
Ojo Alamo	2763'	2863'	aquifer
Kirtland	2863'	3168'	gas
Fruitland	3168'	3266'	gas
<b>Intermediate casing</b>	<b>3216'</b>		
Basal Coal	3266'		gas
<b>Total Depth</b>	<b>3356'</b>		

**Logging Program:**

Open hole - GR, CDL - TD to intermediate casing  
Mud log - TD to intermediate casing

**Coring Program:** none

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-3356'	Non-dispersed	8.4-9.0	30-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3216'	7"	20.0#	J-55
6 1/4"	3105' - 3356'	5 1/2"	15.5#	K-55

**Tubing Program:**

0' - 3356'	2 3/8"	4.7#	J-55
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**Float Equipment:** 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate 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 @ 2863'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

5 1/2" production casing - Pre-drilled liner run to the 7" casing with an overlap. Liner hanger is a slip grip type.

**Wellhead Equipment:** 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

**Cementing:**

9 5/8" surface casing - cement with 160 sx Class "B" cement with ¼ pps cellophane and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/297 sacks Class "B" with 3% sodium metasilicate, 10 pps Gilsonite, and 1/2 pps sack Flocele. Tail with 90 sacks 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride, 1/2 pps flocele and 7 pps Gilsonite (977 cu.ft., 100% excess to circulate to surface).

5 1/2" liner - uncemented.

**BOP and tests:**

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

Intermediate TD to Total Depth - 7 1/6" 3000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 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 south half of section 1 is dedicated to this well.

Drilling Engineer:

Steve Caprell

Date: 2/3/2000

# BURLINGTON RESOURCES OIL & GAS COMPANY CARSON SRC #100

1055' FSL & 1415' FWL, SECTION I, T30N, R5W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
SE/SW SECTION I, T30N, R5W

