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

RECEIVED

a.	Type of Work DRILL	5. Lease Number 2003 JAN -9 AN NM-0558144		
b.	Type of Well	Unit Reporting Number 70 Farmingto  6. If Indian, All. or Tribe		
	GAS Operator	7. Unit Agreement Name		
•	BURLINGTON RESOURCES Oil & Gas Company	7. One Agreement Name		
•	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Trail Canyon		
	(505) 326-9700	9. Well Number 104S		
•	Location of Well	10. Field, Pool, Wildcat		
ati	815'FSL, 1620'FEL	Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM)  O Sec 21., T-32-N, R-8-W		
		API# 30-045- 3/333		
4.	Distance in Miles from Nearest Town 29.8 Miles	12. County 13. State San Juan NM		
5.	Distance from Proposed Location to Nearest Property or Lease	e Line		
6.	Acres in Lease	17. Acres Assigned to Well		
В.	Distance from Proposed Location to Nearest Well, Drlg, Comp 2589' Trail Canyon #1	I, or Applied for on this Lease		
9.	Proposed Depth 3813	20. Rotary or Cable Tools Rotary		
1.	Elevations (DF, FT, GR, Etc.) 6901 Gr.	22. Approx. Date Work will Start		
3.	Proposed Casing and Cementing Program See Operations Plan attached			
4.	Authorized by: Regulatory/Compliance Supervisor	12-20-02 Date		
ERM	IIT NO APPROVAL	DATE		
	OVED BY /8/ David J. Mankiewicz TITLE	DATEPR 2 3 2003		

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 1625 N. French Dr., Hobbs, N.M. 88240

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

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

# OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505

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

TRICT IV 10 South Pache	co, Santa	Fe, NM 87506	<b>,</b>		Santa Fe, N	M 6,509		☐ AME	ENDED REPOR	
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*API : 30-045	Number 7/	333	716	*Pool Code 629		Basin Frui	<b>Pool Nam</b> tland Coal	e		
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18631				TRAIL CANYON			1045			
OGRID No.	•		_		<sup>9</sup> Operator Name				Elevation	
14538				BURLINGT		ES OIL & GAS, I	NC.		6901'	
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or lot no.	Section 21	Township 32N	Range 8W	Lot Idn	Feet from the 815'	North/South line	Feet from the 1620'	East/West line EAST	SAN JUAN	
	<u> </u>		<sup>11</sup> Rott	om Hole	Location	If Different Fr	om Surface			
or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
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3 1/4" (	¬¬ , , ,				515	FD 3 B.L.M.		14827		
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#### OPERATIONS PLAN

Well Name: Trail Canyon 104S

Location: 815'FSL, 1620'FEL, Section 21, T-32-N, R-08-W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 6901' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2662'	
Ojo Alamo	2662'	2802'	aquifer
Kirtland	2802'	3236'	_
Fruitland	3236'	3505'	gas
Intermediate TD	3475′		
Fruitland Coal Top	3505'	3813'	gas
Fruitland Coal Base	3813 <b>′</b>		gas
Total Depth	3813'		_
Pictured Cliffs	3821 <b>′</b>		

#### Logging Program:

Wireline: GR/ILD/NHPI/RHOB-Run GR/NPHI back to surface.

Mudlog: Intermediate to TD.

### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120'-3475'	Non-dispersed	8.4-9.0	30-60	no control
3475'-3813'	Air/Mist			

### Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3475'	7"	20.0#	J-55
6 1/4"	3475' - 3813'	Open Ho	le	

# Tubing Program:

0' - 3813' 2 3/8" 4.7# J-55

**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 insert float collar. Standard centralizers run every other joint above shoe. Run insert float one joint above guide shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2802'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 2000 psi xmas tree assembly.

# Trail Canyon 104S

#### Page 2

# Cementing:

9-5/8" surface casing - cement with 32 sxs Class A, B Portland Type I, II cement (38 cu.ft. of slurry, bring cement to surface through 3/4" line) or equivalent.

WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing.

7" intermediate casing - lead w/429 sacks Premium Lite with, 3% calcium chloride, 1/4#/sack flocele, 5 pps Lcm-1, 0.4% FL-52, 0.4% sms. Tail with 90 sacks Type III cement with 1% calcium chloride and ¼ pps flocele and 0.2% FL-52 (1039 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 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" 2000 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 500 psi.
- \* This gas is dedicated.
- \* The East half of Section 21 is dedicated to the Fruitland Coal.

Drilling Engineer

1/8/03 Date