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

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1a.	Type of Work	5. Lease Number 203 MAR 25 PM
	DRILL	Unit Reporting Number
b.	Type of Well GAS	6. If Indian, All. or Tribe
	0.10	
<b>?.</b>	Operator BURLINGTON RESOURCES Oil & Gas Company JUL 2003	7. Unit Agreement Name
3.	Address & Phone No. of Operator	8-Farm or Lease Name
	PO Box 4289, Farmington, NM 87499 CONS. DIV.	Cornell  Well Number
	(505) 326-9700	101
<b>1</b> .	Location of Well	10. Field, Pool, Wildcat
	1200'FNL, 660'FWL	Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>0</sup> 44.6698, Longitude 108 <sup>0</sup> 04.4707	API# 30-045- 3/ 58 /
4.	Distance in Miles from Nearest Town 7 miles to Int. Hwy 64 & Browning Parkway	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
16.	Acres in Lease	17. Acres Assigned to Well 314.31
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	r Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	1991'	Rotary
21.	Elevations (DF, FT, GR, Etc.) 5694' GR	22. Approx. Date Work will Start
	Proposed Casing and Cementing Program See Operations Plan attached	
23.		
23. 24.	Authorized by: Regulatory/Compliance Supervisor	3-/z-03 Date
24.		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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



DISTRICT I 1825 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., Astec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

C AMENDED REPORT

State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

STRICT IV 040 South Pacheco, Santa	Fe. NM 87505			Santa re,	NM (	0 (000				AMENI	DED REPORT
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30-045- 3/3  *Property Code	701	71629		*Proper		n Fruitland	_Coa	1		• We	ll Number
• •				CORNEL		me				l	101
6928 OGRID No.				Operat		me		* Elevation			Elevation
14538			BURLINGT	-		OIL & GAS, IN	NC.		5694'		
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# OPERATIONS PLAN

Well Name: Cornell #101

Location: 1200'FNL, 660'FWL Section 11, T-29-N, R-12-W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5694'GR

Formation:	Top	Bottom	Contents
Surface	San Jose	465'	
Ojo Alamo	465'	608'	aquifer
Kirtland	608'	1435'	
Fruitland	1435'	1770'	gas
B/Basal Coal	1770'	1791'	gas
Pictured Cliffs	1791'	1991'	gas
Total Depth	1991'		_

Logging Program: Cased hole: GR/DEN/CAL - TD to surface

Mudlog: none

Coring Program: none

# Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-1991'	Non-dispersed	8.4-9.5	30-60	no control

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
8 3/4"	0' - 120'	7"	20.0#	J-55
6 1/4"	0' - 1991 <b>'</b>	4 1/2"	10.5#	J-55
Tubing Program:	·			
	0' - 1991 <b>'</b>	2 3/8"	4.7#	J-55

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

4 ½" production casing - guide shoe and self-fill float collar. Three centralizers run every other joint above shoe. Nine centralizers run every 3<sup>rd</sup> joint to the base of the Ojo Alamo @ 608'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 608'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment:  $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000$  psi screw on independent wellhead.

### Cementing:

7" surface casing - cement with 38 sx Class "B" Type III cement with 0.25 pps Celloflake and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/86 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Cello-flake, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Cello-flake, and 0.2% FL-52 (306 cu.ft. of slurry, 50% excess to circulate to surface.) If cement is not circulated to surface, a temperature survey or CBL will be run during drilling or completion operations to determine TOC.

4-1/2" production casing alternative two stage - Stage collar @ 1335'. First stage: cement with 73 sxs Type III cmt w/1% calcium chloride, 0.25 pps flocele, 0.2% fluid loss. Second stage: 96 sxs Premium Lite cmt w/3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS (306 cu.ft. of slurry, 50% 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 psi/30 min.

Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

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 and commingled.
- \* Anticipated pore pressure for the Fruitland is 570 psi.
- \* This gas is dedicated.
- \* The west half of Section 11 is dedicated to the Fruitland Coal.

philling Engineer

3 13 03 Date