LUNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

a.	Type of Work	5. Lease Number
	DRILL	NMNM01614
		Unit Reporting Number Camangto
lb.	Type of Well	6. If Indian, All. or Tribe
	GAS	
2.	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Thompson
	() 005 0700	9. Well Number
	(505) 326-9700	103
4.	Location of Well	10. Field, Pool, Wildcat
	800'FSL, 1085'FWL	Basin Fruitland Coal
	- 11 1 200 -	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 51.0416, Longitude 108° 06.5164	M Sec.33, T-31-N, R-12-V
		3/574
14.	Distance in Miles from Nearest Town JUN 2003	12. County 13. State
	3.6 miles to Flora Vista P.O.	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
13.	800'	. Y
16.	Acres in Lease	/ 17. Acres Assigned to Well
		$^{320} W/2$
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	or Applied for on this Lease
19.	21' Proposed Depth	20 Potony or Cobio Tools
13.	2432'	20. Rotary or Cable Tools Rotary
	2432	ROCALY
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	5944' GR	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	-	
24.	Authorized by: Sagar Cale	3-12-03
44.	Regulatory/Compliance Supervisor	Date
		Date
DEDMIT NO		JUN 0 4 2003
DEDM		A
PERM	IIT NO APPROVAL D. OVED B ^O riginal Signed: Stephen Mason TITLE	AIE

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.

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

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

2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT											
	Number	215		Pool Code		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*Pool Nam	•			
30-045-	<u> </u>	74	71629			n Fruitland	Coal			ell Number	
Property Code					Property N	ame			103		
OGRID No.		·			*Operator N	lama			* Elevation		
OGKED NO.				RURLINGT	•	S OIL & GAS, IP	ic.		5944'		
14538									<u> </u>		
¹⁰ Surface Location						. 9					
UL or lot no.	Section:	Township 31-N	Range 12-W	Lot ldn	Feet from the 800'	North/South line SOUTH	Feet from the 1085'	Bast/W	est me EST	County SAN JUAN	
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		'									
18 Dedicated Acre	:8		19 Joint or 1	nfill	¹⁴ Consolidation C	ode	²⁸ Order No.				
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OPERATIONS PLAN

Well Name: Thompson #103

Location: 800'FSL, 1085'FWL Section 33, T-31-N, R-12-W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5944'GR

Formation:	Тор	Bottom	Contents
Surface	San Jose	528'	
Ojo Alamo	528'	637'	aquifer
Kirtland	637'	1886'	
Fruitland	1886'	2231'	gas
B/Basal Coal	2231'	2232'	gas
Pictured Cliffs	2232'	2432'	gas
Total Depth	2432'		•

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

Mudlog: none

Coring Program: none

Mud Program:

Interval	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud		40-50	no control
120-2432'	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' - 2432'	4 1/2"	10.5#	J-55
Tubing Program:				
	0' - 2432'	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 3rd joint to the base of the Ojo Alamo @ 637'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 637'. 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/117 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 (374 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@ 1786'. First stage: cement with 72 sxs Type III cmt w/1% calcium chloride, 0.25 pps flocele, 0.2% fluid loss. Second stage: 130 sxs Premium Lite cmt w/3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS (374 cu.ft. of slurry, 50% excess to circulate to surface).

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 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 33 is dedicated to the Fruitland Coal.