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

	ADDITION FOR REDMIT TO DOUBLE	DEEDEN OF BLUC BACK
	APPLICATION FOR PERMIT TO DRILL, I	
a .	Type of Work	5. Lease Number
	DRILL	NMSF-079491
		Unit Reporting Number
		MV-891000950A
_	T 5 NA/-11	DK-891000950 ' //
) .	Type of Well GAS	6. If Indian, All. or Tribe
	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	San Juan 27-5 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 27-5 Unit
	(FOE) 326 9700	9. Well Number
	(505) 326-9700	105N
	Location of Well	10. Field, Pool, Wildcat
	2505 FSL, 985 FEL	Blanco MV/Basin DK
	2436 170	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.3 Longitude 107° 19.3	I Sec. 11, T-27-N, R-5-W
	·	API# 30-039- 27276
1 .	Distance in Miles from Nearest Town	12. County 13. State
	38.7 miles from Blanco	Rio Arriba NM
5.	Distance from Proposed Location to Nearest Property or I	Lease Line
	885'	
3 .	Acres in Lease	17. Acres Assigned to Well
		MV - 320 E/2
		DK - 320 S/2
В.	Distance from Proposed Location to Nearest Well, Drlg, C	ompl, or Applied for on this Lease
9.	Proposed Depth	20. Rotary or Cable Tools
	8742'	Rotary
1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7457 GR 1451	
3.	Proposed Casing and Cementing Program See Operations Plan attached	
1 .	Authorized by: Regulatory/Compliance Supervi	<u> 2-//-02</u> sor Date
FRM	APPRO APPRO	VAL DATE
11	/a/ David J. Mankiewicz	JAN 2 0 2004

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

		W]	ELL LC	CATION	AND ACI	REAGE	DEDIC	CATION P	LAT		
	Number	imber ⁸ Pool Code ⁸ Pool Name									
30-039-											
Property Code Property Name Well Number											
	7454 SAN JUAN 27-5 UNIT 105N										
OGRID No).		5115		*Operator					_	devation
14538			BUK	LINGTON F	RESOURCES OF	L & GAS	COMPA	NY LP			7451'
					¹⁰ Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	1 '	outh line	Feet from the	1	/West line	County
	11	27-N	5-W	L	2435	SOUT	L	770	EAST		RIO ARRIBA
			11 Bott	om Hole	Location I			m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/	South line	Feet from th	e East	/West line	County
Dedicated Acre	<u> </u> :8	1	¹³ Joint or	infil)	¹⁴ Consolidation	Code		¹⁶ Order No.	_1		
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DK-S/320			<u> </u>								
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				Printe	d Name						
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		FD BLN	3 1/4" A BC. 195	7	S 87-43- 2652.09*	44 W (M)	BLM 19	Certific	ate Number	_	

submitted in lieu of Form 3160-5

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Sundry Notices and Reports on (Well's/		
1. Type of Well	200 AUG 19 PM 1: 28	5. 6.	Lease Number NMSF-079491 If Indian, All. or Tribe Name
GAS 2. Name of Operator	070 Farmington, NM	7.	Unit Agreement Name
BURLINGTON	OIL & GAS COMPANY LP	_ ,	San Juan 27-5 Unit
3. Address & Phone No. PO Box 4289, Far	o. of Operator mington, NM 87499 (505) 326-9700	8. 9.	San Juan 27-5 U #105N API Well No.
	Footage, Sec., T, R, M, Sec.11, T-27-N, R-5-W, NMPM		Field and Pool Blanco MV/Basin DK County and State Rio Arriba Co, NM
12. CHECK APPROPRIAT Type of Submissio _X_ Notice of Subsequen Final Aba	Intent Abandonment _X Change completion New Constant Report Plugging Back Non-Rout Casing Repair Water Sh	of Plastructions in the contract of the contra	ans tion Fracturing ff
The location f 2435'FS Attache	sed or Completed Operations or the subject well has been moved from 2505' SL, 770'FEL at the request of the Bureau of Le ed are a new C-102 plat, Multi-point use plan t and fill diagram.	and M	lanagement.
	JAN 2004		
14. I hereby certi	fy that the foregoing is true and correct. Title Regulatory Supervisor	Dat	e 8/18/03
This space for Fede APPROVED BY CONDITION OF APPROVA		:e _	JAN 2 0 2004

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #105N

2505'FSL, 885'FEL, Section 11, T-27-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 35.3, Longitude 107° 19.3

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 7457'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	3684 ′	
Ojo Alamo	3684 ′	3854'	aquifer
Kirtland	3854'	4089'	gas
Fruitland	4089'	4309 ′	_
Pictured Cliffs	4309'	4399'	gas
Lewis	4399 '	4884'	gas
Intermediate TD	4499'		_
Huerfanito Bentonite	4884'	5264'	gas
Chacra	5264'	6064'	gas
Cliff House	6064′	6119 '	•
Menefee	6119'	6469 '	gas
Point Lookout	6469'	6979 '	gas
Mancos	6979 '	7639 ′	gas
Gallup	7639 ′	8407 ′	gas
Greenhorn	8407'	84671	gas
Graneros	8467'	8502'	gas
Dakota	8502 ′		gas
TD	8742'		

Logging Program:

Mud logs - none

Cased hole - CBL-CCL-GR - TD to surface

Open hole - none

Cores - none

Mud Program:

Interval		Type	Weight	<u>Vis.</u>	Fluid Loss	
0 -	120'	Spud	8.4-9.0	40-50	no control	
120-	4499'	LSND	8.4-9.0	30-60	no control	
4499-	87421	Air/N2	n/a	n/a	n/a	

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Inte	erval	Csg.Size	Wt.	Grade
12 1/4"	0'-		9 5/8"	32.3#	WC-50
8 3/4"	0'-	4499'	7"	20.0#	J-55
6 1/4"	4399' -	8742'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 8742'

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 80 sx Type III cement with 0.25 pps Celloflake and 2% calcium chloride (113 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.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/418 sx Premium Lite cement with 3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss (1014 cu.ft. of slurry, 50% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar 3989'. First stage: cement with 54 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss. Second stage: 422 sx Premium Lite cmt with 3% calcium chloride, 0.25 pps Flocele, 5 ps LCM-1, 0.4% fluid loss, 0.4% SMS (1014 cu.ft., 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3854'. Two turbolating centralizers at the base of the Ojo Alamo at 3854'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 315 sx Premium Lite cmt w/0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss (624 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

 If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesaverde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The east half of Section 11 is dedicated to the Mesaverde and the south half of Section 11 is dedicated to the Dakota in this well.
- This gas is dedicated.

Drilling Engineer	12/31/2002
Drilling Engineer	Date