UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Type of Work	5. Lease Number
	DRILL	NMSF-078423
	70.00 50 - 1	Unit Reporting Number
		MV-8910016500
46	Type of Well	DK-891001650A
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator DE LOS CONTROLS	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	San Juan 29-7 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 29-7 Unit
	- · · · · · · · · · · · · · · · · · · ·	9. Well Number
	(505) 326-9700	80B
4.	Location of Well	10. Field, Pool, Wildcat
	1540' FNL, 1065' FWL,	Blanco MV/Basin DK
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ^o 44.6, Longitude 107 ^o 34.9	F Sec. 9, T-29-N- R-7- API # 30-039- 2702/
14.	Distance in Miles from Nearest Town	12. County 13. State
	16 miles to Blanco	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Le	ease Line
		17. Acres Assigned to Well
16.	Acres in Lease	320 W/2
16. 18.	Distance from Proposed Location to Nearest Well, Drlg, Co	320 W/2
	Distance from Proposed Location to Nearest Well, Drlg, Co	320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.)	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools
18.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE
18.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' Proposed Depth 7443' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR Proposed Casing and Cementing Program	mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' Proposed Depth 7443' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' Proposed Depth 7443' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR Proposed Casing and Cementing Program	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH AFFACHED "GENERAL REQUIREMENTS".
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' Proposed Depth 7443' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR Proposed Casing and Cementing Program	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED
18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drlg, Col 22' Proposed Depth 7443' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR Proposed Casing and Cementing Program See Operations Plan attached	320 W/2 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drlg, Con 22' Proposed Depth Procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 Elevations (DF, FT, GR, Etc.) 6136' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory/Compliance Supervis	20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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.

P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

DISTRICT & P.O. Drower DD, Artesia, N.M. 88211-0719

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

1000 Rio Brazos Rd., Aziec, N.M. 87410 DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

MV-W/320

DK-W/320

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number				² Pool Code	·	^a Pool Name				
30-039-	27	021	72319	9/71599	<u>Bla</u>	nco Mesaverd	tota			
⁴ Property Code				⁸ Property Name				* Well Number		
⁻ ,7465	1			S	an Juan 29-	N JUAN 29-7 UNIT			80B	
7 OGRID No		Operator Name							⁹ Elevation	
14538BURLINGTO				BURLINGTON	N RESOURCES OIL & GAS INC.				6136	
				_	¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South fine	Feet from the	East/West line	County	
Ε	9	29-N	7-W	li	1540	NORTH	1065	WEST	RIO ARRIBA	
			11 Botte	om Hole	Location	f Different Fr	om Surface			
UL or lot no.	Section	Township .	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Declipated, Acre	<u> </u>	1 12 Je	int or infil		¹⁴ Consolidation C	ode	¹⁹ Order No.	<u> </u>		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

6				·	
CALC'D CORNER		N 89'4 5287.9 NDELARIA, PABLO, ET UX	3' W 9'(R)	FD 2 1/2* GLO 1914 BRASS CAP	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
0′(R) ₩ 0′(R)	1540' g				
1065'		257'		(Skynature Cole
	1100,	LAT: 36'44.6' N. LONG:107'34.9' W.			Peggy Cole Printed Name Regulatory Supervisor Title 12-26-01
FD 2 1/2" GLO 1914 BRASS CAP				2 18 18 18 18 18 18 18 18 18 18 18 18 18	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by m or under my supervision, and that the same is true and correct to the best of my bellef.
 			6E :1. lki :3		Dohe of Survey ROYA
	NMSF-	078423		1295 P	Certificate Number 1/11 LNNS

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #80B

1540'FNL, 1065'FWL, Section 9, T-29-N, R-7-W

Rio Arriba County, New Mexico

Latitude 36° 44.6, Longitude 107° 34.9

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6136'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1953 ′	
Ojo Alamo	1953'	2123'	aquifer
Kirtland	2123'	2498'	gas
Fruitland	2498'	2928 '	
Pictured Cliffs	2928'	3068'	gas
Lewis	3068 '	3688 ′	gas
Intermediate TD	3168'		
Huerfanito Bentonite	3688 "	3908 ′	gas
Chacra	3908 . *	4653'	gas
Cliff House	4653 ′	4763′	
Menefee	4763 '	5123 ′	gas
Point Lookout	5123'	5524 ′	gas
Mancos	5524 '	6398 '	gas
Gallup	6398 '	7133 ′	gas
Greenhorn	7133'	7188'	gas
Graneros	7188'	7248'	gas
Dakota	7248′		gas
TD	7443'		

Logging Program:

Mud logs - none

Open hole - none

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

Cores - none

Mud Program:

_							
	Interval		Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss	
	0-	200'	Spud	8.4-9.0	40-50	no control	
	200-	3168′	LSND	8.4-9.0	30-60	no control	
	3168-	74431	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 Int	erval	Csg.Size	Wt.	Grade
12 1/4"	0'-	2001	9 5/8"	32.3#	WC-50
8 3/4"	0'-	3168'	7"	20.0#	J-55
6 1/4"	3068' -	74431	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7443' 2 3/8" 4.7# J-55

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.

Operations Plan - San Juan 29-7 Unit #80B 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.

Ceneral -

- 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 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. 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/324 sx 50/50 Class "G" TXI Liteweight cement with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite and 0.5 pps Celloflake. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake (952 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 2398'. First stage: cement with w/181 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 279 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (952 cu.ft., 100% 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 2123'. Two turbolating centralizers at the base of the Ojo Alamo at 2123'. 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 $4\ 1/2'' \times 7''$ overlap. Lead with 436 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps Celloflake, 5 pps Gilsonite (628 cu.ft.), 40% excess to cement $4\ 1/2'' \times 7''$ overlap). WOC a minimum of 18 hrs prior to completing.

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

Operations Plan - San Juan 29-7 Unit #80B

Page Three

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 west half of Section 9 is dedicated to the Mesaverde and the Dakota in this well.
- This gas is dedicated.

Brennan D. Shut
Drilling Engineer

12/27/01
Date