UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	5. Lease Number
	DRILL	NMSF-079492A
1b.	Type of Well GAS	DK-891000950 6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 27-5 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 6786	8. Farm or Lease Name San Juan 27-5 Unit 9. Well Number
	(505) 326-9700	96N
4.	Location of Well 2625' FNL, 2555' FEL	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 34.4, Longitude 107°C20.7	G Sec. 15, T-27-N, R-
14.	Distance in Miles from Nearest Town 41.8 miles from Blanco	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Le 2555'	ease Line
16.	Acres in Lease	17. Acres Assigned to Well MV - 320 E/2 DK - 320 N/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Con 1839'	mpl, or Applied for on this Lease
19.	Proposed Depth 7948'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6691' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Jaggy Cale	12-12-01
	Régulatory/Compliance Supervise	or Date
DEDM	IIT NO. APPROV	AL 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.

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

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

2040 South Pacheco Santa Fe, NM 87505 N -2

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	Pool Code	Pool Code Pool Name		
30-039- 272	72319/71599	Blanco Mesaverde/Basin Dakota		
Property Code			• Well Number	
7454		SAN JUAN 27-5 UNIT		
OGRID No.	BURLINGTON RESOURCES OIL & GAS, INC.		• Elevation	
14538			6691	
	1	0 ~ 4 7 11	* *	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	C	ounty
G	15	27-N	5-W		2625	NORTH	2555	EAST	RIO AR	RIBA
		·	11 Botte	om Hole	Location 1	f Different Fro	m Surface		_	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County
12 Dedicated Acre	1	<u> </u>	¹⁹ Joint or	Infill	M Consolidation (Code	¹⁵ Order No.		l	
MV-E/320										

DK-N/320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #96N

2625'FNL, 2555'FEL, Section 15, T-27-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 34.4, Longitude 107° 20.7

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6691'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	2863 ′	
Ojo Alamo	2863 ′	3023'	aquifer
Kirtland	3023'	3363'	gas
Fruitland	3363 <i>*</i>	3513 ′	
Pictured Cliffs	3513'	3603'	gas
Lewis	3603 ′	4033'	gas
Intermediate TD	3703′		-
Huerfanito Bentonite	4033'	4463'	gas
Chacra	4463'	5249'	gas
Cliff House	5249'	5319 ′	_
Menefee	5319 ′	5683'	gas
Point Lookout	5683'	6168′	gas
Mancos	6168 ′	6838 ′	gas
Gallup	6838 ′	7618 '	gas
Greenhorn	7618'	י 7678	gas
Graneros	7678'	7703'	gas
Dakota	7703 ′		gas
TD	7948'		

Logging Program:

Mud logs - none Cased hole - CBL-CCL-GR - TD to surface Open hole - none Cores - none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120- 3703'	LSND	8.4-9.0	30-60	no control
3703- 7948'	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 Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3703'	7"	20.0#	J-55
6 1/4"	3603' - 7948'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7948'

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/334 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 (835 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 3263'. First stage: cement with 47 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss. Second stage: 345 sx Premium Lite cmt with 3% calcium chloride, 0.25 pps Flocele, 5 ps LCM-1, 0.4% fluid loss, 0.4% SMS (835 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 3023'. Two turbolating centralizers at the base of the Ojo Alamo at 3023'. 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 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 $4\ 1/2'' \times 7''$ overlap). WOC a minimum of 18 hrs prior to completing.

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

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 15 is dedicated to the Mesaverde and the north half of Section 15 is dedicated to the Dakota in this well.

This gas is dedicated.

Driffling Engineer

12/31/2002 Date