

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

## Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON**

RESOURCES OIL & GAS COMPANY LP

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
Sec., T--N, R--W, NMPM

Unit O, (SWSE) 530' FSL & 1520' FEL, Sec. 22, T27N, R4W

OCT  
2004 SEP 1 PM 3 52

RECEIVED  
070 FARMINGTON NM

5. Lease Number  
NMSF080674

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 27-4 Unit

8. Well Name & Number

San Juan 27-4 Unit #143A  
9. API Well No.

30-039-27616

10. Field and Pool

Blanco MV & Basin DK

11. County and State

Rio Arriba Co, NM

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☐ Other

☒ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

**13. Describe Proposed or Completed Operations**

Plans are being changed to completing this well as a single MV well to completing as a DHC'd MV/DK well. Since this well is located in the Forest and to avoid confusion we will not be changing this well name. See attached for the new Operational Plan showing the revised TD (8526') and changed cement & casing detail. The Dakota plat is also attached.

**14. I hereby certify that the foregoing is true and correct.**

Signed Patsy Clugston Patsy Clugston Title Sr. Regulatory Specialist Date 9/30/04

(This space for Federal or State Office use)

APPROVED BY Chip Hannan Title PMT Geologist Date 10/6/04  
CONDITION OF APPROVAL, if any:

## OPERATIONS PLAN

**Well Name:** San Juan 27-4 Unit #143A – API – 30-039-27616  
**Location:** Unit O (SWSE) 530' FSL & 1520' FEL, Section 22, T-27-N, R-4-W  
 Rio Arriba County, New Mexico  
 Latitude 36° 33.1843, Longitude 107° 14.0473  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 7261' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom Contents</u>
Surface	San Jose 3549'	
Ojo Alamo	3549'	3829' aquifer
Kirtland	3829'	3959' gas
Fruitland	3959'	4123'
Pictured Cliffs	4123'	4206' gas
Lewis	4206'	4638' gas
Intermediate TD	4306'	
Huerfanito Bentonite	4638'	5093' gas
Chacra	5093'	5833' gas
Cliff House	5833'	5963'
Menefee	5963'	6288' gas
Point Lookout	6288'	6813' gas
Mancos	6813'	7438' gas
Gallup	7438'	8236' gas
Greenhorn	8236'	8300' gas
Graneros	8300'	8331' gas
Two Wells	8331'	8493'
Cubero	8493'	8516'
Oak Canyon	8516'	
TD	8526'	

### Logging Program:

Mud Logs/Coring/DST -

Mud logs - none  
 Coring - none  
 DST - none

Open hole - none

Cased hole – Gamma Ray, CCL, CBL – surface to TD

### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
200- 4306'	LSND	8.4-9.0	30-60	no control
4306- 8526'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 ¼"	0' - 200'	9 5/8"	32.3#	H-40
8 ¾"	0' - 4000'	7"	20.0#	J-55
8 ¾"	4000' - 4306'	7"	23.0#	L-80
6 ¼"	0' - 7800'	4 ½"	10.5#	J-55
6 ¼"	7800' - 8526'	4 ½"	11.6#	J-55

**Tubing Program:** 0' – 8526' 2 3/8" 4.7# J-55

**BOP Specifications, Wellhead and Tests:**

**Surface to Intermediate TD -**

11" 2000 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" 2000 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, 2000 psi minimum choke manifold (Reference Figure #3).

**Completion Operations -**

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). 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 4 1/2" x 2 3/8" x 2000 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 drill crew.
- All BOP tests & 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 conventionally drilled -**

Cement with 146 sacks (1.28 ft<sup>3</sup>/sx yield = 188 cu ft) Type III cement with 0.25 pps Celloflake, 3% calcium chloride (200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

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

**7" intermediate casing -**

Lead with 393 sacks (@ 2.13 ft<sup>3</sup>/sx yield = 837 cu ft) Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (393 sx @ 2.13 ft<sup>3</sup>/sx yield = 837 ft<sup>3</sup>). Tail w/90 sacks (@ 1.38 ft<sup>3</sup>/sx yield = 124 cu ft) Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss). Total 961 cu ft = 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 to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar set 300' above the top of the Fruitland. First stage: Lead w/12 sxs (@ 2.08 ft<sup>3</sup>/sx yield = 25 cu ft) Premium Lite w/ 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sxs (@ 1.38 ft<sup>3</sup>/sx yield = 124 cu ft) Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 381 sacks (@ 2.13 ft<sup>3</sup>/sx yield = 812 cf) with Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Total = 961 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 @ 2704'. Two turbolating centralizers will be set at the base of the Ojo Alamo 2704'. 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/Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 290 sacks (@ 1.98 ft<sup>3</sup>/sx yield = 575 cu ft) Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52 (30% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float collar stacked on top of float shoe.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- 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 (Air/Mist Drilling):

The following equipment will be operational while air/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 wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water-cooled exhaust.
- 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 Mesa Verde 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	Mesaverde	700 psi
Pictured Cliffs	600 psi	Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of Section 22 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Sean Louigo  
Drilling Engineer

September 30, 2004  
Date

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV1220 S. St Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

Form C-102

Permit 1620

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name BASIN DAKOTA (PRORATED GAS)	Pool Code 71599
Property Code 7452	Property Name SAN JUAN 27 4 UNIT	Well No. 143A
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS CO	Elevation

### Surface And Bottom Hole Location

UL or Lot O	Section 22	Township 27N	Range 04W	Lot Idn	Feet From 530	N/S Line S	Feet From 1520	E/W Line E	County Rio Arriba
Dedicated Acres 320		Joint or Infill		Consolidation Code		Order No.			


#### OPERATOR CERTIFICATION

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Electronically Signed By:

Title: Sr. Regulatory Specialist

Date: 9/30/04

#### SURVEYOR CERTIFICATION

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.*

Surveyed By: Jason C Edwards

Date of Survey: 07/03/2003

Certificate Number: 15269