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

	APPLICATION FOR PERMIT TO DRI	LL, DEEPEN, OR PLUG BACK 4 PM 1: nn
1a.	Type of Work DRILL 070 15	5. Lease Number NMSF-079607 Unit Reporting Number MV-891001054A DK-8910010540
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name  San Juan 27-4 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	AUG 8. Farm or Lease Name San Juan 27-4 Unit Cor 9. Well Number 34N
4.	Location of Well  660' FSL, 830' FEL  370 10  Latitude 36° 31.5, Longitude 107° 13.9	10 Field, Pool, Wildcat  Blanco MV/Basin DK  11. Sec., Twn, Rge, Mer. (NMPM)  Sec. 34, T-27-N, R-4-N  API# 30-039- 26 90 3
14.	Distance in Miles from Nearest Town 24 miles from Gobernador	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Propert	y or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2
18.	Distance from Proposed Location to Nearest Well, De 900'	
19.	Proposed Depth 8250' This action is subject to tector procedural review pursuant and appeal pursuant to 43	to 43 CFR 3165.3
21.	Elevations (DF, FT, GR, Etc.)  7027 GR  6976	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24.	Authorized by:	
	ROVED BY AMAGES TITLE	PPROVAL 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.

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

	WELL L	OCATION AND A	CREAGE DEDIC	CATION PLA	ΔT	
'API Numbe	" <u> </u>	Pool Code		Pool Name		
	903 72319	/71599 Bla	nco Mesaverde/	Basin Dako	ta	
*Property Code	*Property Name *Well Number				ll Number 34N	
20056 'OGRID No.		*Operator				levation
14538	BURLING	STON RESOURCES		MPANY LP		5995 .
		<sup>10</sup> Surface				
P 34	Township Range 27N 4W	Lot Idn Feet from the 370	North/South line SOUTH	Feet from the	EAST	RIO ARRIBA
		lole Location I		rom Surfa	эсе	
UL or lot no. Section	Township Range	Lot Idn Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres MV - E/320		<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code <sup>18</sup>	Order No.		
DK - E/320 NO ALLOWABLE V	VILL BE ASSIGNED OR A NON-STAN	TO THIS COMPLETI NDARD UNIT HAS BE	L ON UNTIL ALL I EEN APPROVED B	NTERESTS HAY THE DIVIS	AVE BEEN COM	SOLIDATED
Reissued to samended locat	now ion Aug	33.30 2004 2004 4		I hereby contained to the b Signature Nancy ( Printed   Senior   Title   1-30-04   Date   I hereby of shown on the soft of the	Oltmanns Name Staff Speci  YOR CERTI Ertify that the we this plat was plott actual surveys made sisters and that the	anformation and complete e and belief  Darma  alist  FICATION  all location and from field by me or under same is true
	8   833   1805   primms	MMSF / MMSF		Date o signature	f Survey: JUL and Seal of Profes  C. EDW MEXICO 15269	y 3, 2003 sional Surveyor

UNITED ST DEPARTMENT OF T	HE INTERIOR		
BÜREAU OF LAND			<del></del>
Sundry Notices an	d Reports on Wells		-
	Z004 FES 18 PM 2: 54	5.	Lease Number NMSF-079607
1. Type of Well GAS	070 Farmington, NM	6.	If Indian, All. or Tribe Name
2. Name of Operator		7.	Unit Agreement Name
BURLINGTON		(	74#
RESCURCES OIL & GAS COMPANY	LP	C	San Juan 27-4 Unit
	· · · · · · · · · · · · · · · · · · ·	8.	Well Name & Number
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	(505) 326-9700	9.	San Juan 27-4 U Com API Well No.
4. Location of Well, Footage, Sec., T,	R, M	10.	30-039- <b>26903</b> Field and Pool
370'FSL, 20'FEL, Sec.34, T-27-N, R-	4-W, NMPM		Blanco MV/Basin DK
		11.	County and State Rio Arriba Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE		THER	DATA
Type of Submission X Notice of Intent A	Type of Action bandonment X Change of	Plar	ns ·
R	ecompletion New Const		
			Fracturing
Final Abandonment A			Injection
13. Describe Proposed or Completed O	perations		
	equest of the Carson Nationa erations plan, Multi-point s	l Fo	rest. Attached
	V70 77 1 V		
	1850 20 30 30 1 5 3 3 4 5 3 3 4 5 3 3 4 5 5 3 4 4 5 5 3 4 4 5 5 3 4 5 5 5 5		
	Aug		
	2004	<b>\</b>	
	E AND SA		
	Class States		
			·
14. I hereby certify that the forego	ing is true and correct.		
Signed King Oltmans Tit	le <u>Senior Staff Specialist</u>	]	Date 1/30/04
(This space for Federal for State Office	e use) Title <u>AFM</u> Date	=	7-29-84
condition of Attroval, if any:			,

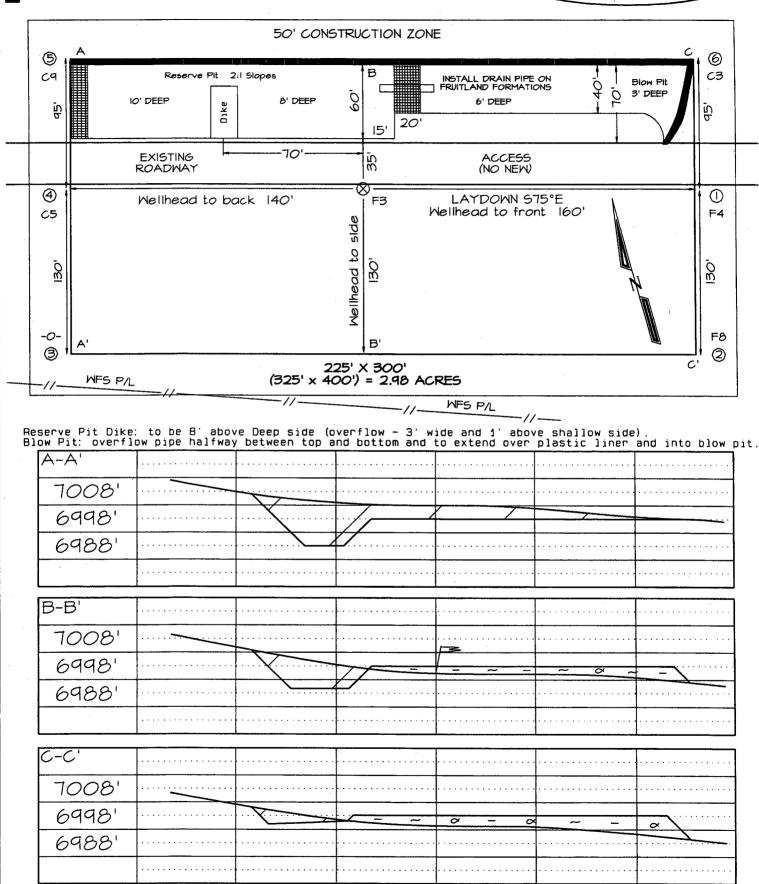
#34N

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# BURLINGTON RESOURCES OIL & GAS COMPANY, LP SAN JUAN 27-4 UNIT COM #34N, 370' FSL & 20' FEL SECTION 34, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6995' DATE: JULY 3, 2003

LATITUDE: 36°31'25"
LONGITUDE: 107°13'45"

DATUM: NADI927



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

#### OPERATIONS PLAN

Well Name: San Juan 27-4 Unit Com #34N

Location: 370'FSL, 20' FEL, Section 34, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 31.4195, Longitude 107° 13.7465

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6995'GL

Formation Tops:	<u>Top</u>	Bottom .	Contents
Surface	San Jose	3252 <b>′</b>	
Ojo Alamo	3252 <b>′</b>	3468'	aquifer
Kirtland	3468'	3637'	gas
Fruitland	3637 <b>′</b>	3792 <b>′</b>	_
Pictured Cliffs	3792 <b>'</b>	3932'	gas
Lewis	3932 <b>′</b>	4277 <b>'</b>	gas
Intermediate TD	4032'		
Huerfanito Bentonite	4277 <b>′</b>	4762 <b>'</b>	gas
Chacra	4762 <b>′</b>	5492'	gas
Cliff House	5492 <b>′</b>	5582 <b>′</b>	-
Menefee	5582 <b>′</b>	5957 <b>′</b>	gas
Point Lookout .	5957 <b>'</b>	6447′	gas
Mancos	6447 <b>′</b>	7082 <b>′</b>	gas
Gallup	7082 <b>′</b>	7897 <b>′</b>	gas
Greenhorn	7897'	7957 <b>'</b>	gas
Graneros	7957'	7982'	gas
Dakota	7982 <b>′</b>	8097 <b>′</b>	gas
Paguate	8097 <b>′</b>	8122 <b>'</b>	gas
Upper Cubero	8122 <b>'</b>	8162 <b>'</b>	gas
Lower Cubero	8162 <b>'</b>	8192 <b>'</b>	gas
Oak Canyon	8192 <b>'</b>		_
TD	8212'		

## 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> </u>				
Interval	Type	Weight	Vis.	Fluid Loss
0- 120,200	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
200- 4032'	LSND	8.4-9.0	30-60	no control
4032- 8212'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

circulating media will be dependent on rig contractor on surface hole.

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

<u> Hole Size</u>	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 120' 200'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4000'	7" 20.0#	J-55
8 3/4"	4000' - 4032'	7" 23.0#	L-80
6 1/4"	0' - 7800'	4 1/2" 10.5#	J-55
6 1/4"	7800' - 8212'	4 1/2" 11.6#	N-80

<u>Tubing Program:</u> 0' - 8212' 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  $\frac{1}{2}$ " x2 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 pre-set drilled-Cement with 24 sacks Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu.ft. of slurry, bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.
- 9 5/8" surface casing conventionally drilled Cement with 88 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride.
  (113 cu.ft., 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 366 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps
  Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90
  sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (903
  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 with 15 sacks Premium Lite cmt w/3% calcium chloride, 0.25 pps Celloflake, 0.4% fluid loss 5 pps LCM-1, 0.4% sodium metasilicate. Tail with 90 sacks with Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: cement with 350 sacks with Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (903 cu. ft.-50% excess to circulate to surface).

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 288 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (570 cu.ft., 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 the 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 formation 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 below the top of the Pictured Cliffs.
- The east half of Section 34 is dedicated to the Mesa Verde and the Dakota.
- This gas is dedicated.

from loving

4-20-01

4-20-01