UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEP	2001 EED 0.4 DM 5
1a.	Type of Work	5. Lease Number
	DRILL	SF-080668
		Unit Reporting/Number 1600,
		MV-8910010510
		DK-891001051B
1b.	Type of Well	6. If Indian, All. or Tribe
ib.	GAS AND COLOR	2. Il Ilidian, All. of Tribe
	GAS .	
2.	Operator GUL 200	7. Unit Agreement Name
	BURLINGTON SOUND	
	RESOURCES Oil & Gas Company	San Juan 27-4 Unit
	The second secon	san oddir 27 4 onic
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 27-4 Unit
	¥60.	9. Well Number
	(505) 326-9700	#98C
	1505) 520 5100	# 3 O C
4.	Location of Well	10. Field, Pool, Wildcat
	750' FNL, 2500' FWL	Blanco Mesaverde
	•	11. Sec., Twn, Rge, Mer. (NMPM)
Latit	ude 36° 35.5687'N, Longitude 107° 14.3053'W	C Sec. 10, T27N, R04W
~~	It do to to, Longroude 10/ 11/0000 W	API # 30-039-
		27644
14.	Distance in Miles from Nearest Town	12. County 13. State
	27 miles to Gobernador	Rio Arriba NM
15. 16.	Distance from Proposed Location to Nearest Property or Lease 750' Acres in Lease	17. Acres Assigned to Well MV-320 W/2
		MV-320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
	1400'	
19.	Proposed Depth	20. Rotary or Cable Tools
	6602'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7144' GR	
	Proposed Casing and Cementing Program	
23.		
23.		
23.	See Operations Plan attached	
23.		
23.	See Operations Plan attached	
23.		2/2/04
	See Operations Plan attached	2/2/04 Date
	See Operations Plan attached Authorized by:	2/2/04 Date
24.	Authorized by: Regulatory Specialist	· · · · · · · · · · · · · · · · · · ·
	Authorized by: Regulatory Specialist	· · · · · · · · · · · · · · · · · · ·
24. PERMI	Authorized by: Regulatory Specialist APPROVAL D	DATE
24. PERMI	Authorized by: Regulatory Specialist	· · · · · · · · · · · · · · · · · · ·

Archaeological Report attached
Threatened and Endangered Species Report attached

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

Qistrict 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

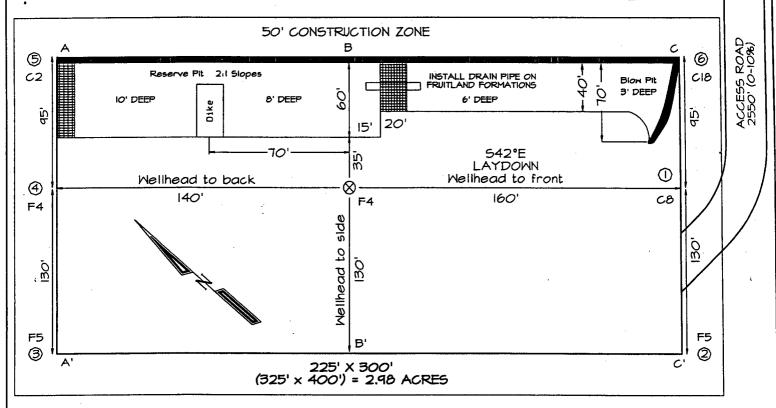
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number Pool Code				de	³Pool Name							
30-039-	776	24	723	10		R1 a	nco Mesavero	1.				
¹Property	Code	7	123	1.9	*Pro			16			*We	11 Number
7452								<u> </u>			98C	
OGRID No.												
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14538	l		DOI 121				· · · · · · · · · · · · · · · · · · ·		IN1, CI			/ 144
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	•	11 Bo	ottom	Hole L	ocation	n I	f Different	Fro	om Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line		et from the	East/W	est line	County
12 Dedicated Acres					¹⁹ Joint or In	ıfill	⁵⁴ Consolidation Code	¹⁵ Orde	r No.	L		L
MV-W/320												
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BURLINGTON RESOURCES OIL & GAS COMPANY, LP SAN JUAN 27-4 UNIT #98C, 750' FNL & 2500' FWL SECTION 10, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 7144' DATE: AUGUST 8, 2003

LATITUDE: 36°35'34"
LONGITUDE: 107°14'18"

DATUM: NAD1927



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).

Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into plow pit.

A-A'

TI58'

TI48'

TI58'

TI48'

TI38'

C-C'

TI58'

TI48'

TI38'

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 #98C

Location: 750'FNL, 2500' FWL, Section 10, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 35.6'N, Longitude 107° 14.3'W

Formation: Blanco Mesa Verde

Elevation: 7144'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	3381 ′	
Ojo Alamo	3381 ′	3621'	aquifer
Kirtland	3621 ′	3844'	
Fruitland	3844'	4031'	gas
Pictured Cliffs	4031'	4116'	gas
Lewis	4116'	4553 ′	gas
Intermediate TD	4366'		
Huerfanito Bentonite	4553 ′	5000 ′	gas
Chadra	5000'	5617'	gas
Upper Cliff House	5617 ′	5820'	
Massive Cliff House	5820 ′	5885′	gas
Menefee	5885'	6202'	gas
Point Lookout	6202'	6736 ′	gas
Mancos	6736 ′		-
Total Depth	6602'		

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:

Interval	Type	Weight	Vis.	Fluid Loss
0- 300'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
300- 4366'	LSND	8.4-9.0	30-60	no control
4366- 6602 '	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 300'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4000'	7" 20.0#	J-55
8 3/4"	4000' - 4366'	7" 23.0#	L-80
6 1/4"	4266' - 6602'	4 1/2" 10.5#	J-55

<u>Tubing Program:</u> 0' - 6602' 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 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 220 sacks Type III cement with 0.25 pps Celloflake, 3% calcium
chloride. (282 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. Test casing to
600 psi for 30 minutes prior to drilling out.

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

7" intermediate casing -

Lead with 397 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 (969 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/29 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. Second stage: 368 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 (969 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 @ 3621'. Two turbolating centralizers at the base of the Ojo Alamo 3621'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo at 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. Cement with 167 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (330 cu.ft.-30% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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 formation will be completed.
- 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

- 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 west half of Section 10 is dedicated to the Mesa Verde.
- This gas is dedicated.

Seen Corvin Jebuary 25, 2004
Drilling Engineer Date

BURLINGTON RESOURCES

Burlington Resources

2000 pei System Defiling Rig

MO PLOOR

ROTATING WEAR

PRIATE LINE

Completion/Workover Rig BOP Configuration 2,000 pel Bystem

Dritting Rig Choks Manifold Configuration 2000 pel System

Point to Total Depth. 2,000pel worlding presente

Figure #3

perame. A stripping head to be installed on the top o prossure or greater excluding 600 pel attipping haed Operations. 7-1/16" bore, 2000 pal minimum world he BOP. All BOP equipment is 2000 pel working Minimum 80P installation for all Completion idupe ed at 908 sing elab be equip

4-20-01

Figure #1

4-20-01