UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, D	DEEPEN, OR PLUG BACK MEDELVE
1a.	Type of Work	5. Lease Number
	DRILL	SF-0783994 APR 27 PM
	•	Unit Reporting Number
	Tune of Wall	6. If Indian, All. or Tribe FARMINGTO:
1b.	Type of Well GAS	o. II indian, An. or Tribe a wints (a) ∪;
/	2021	
2.	Operator	્રું ે્રે7. Unit Agreement Name
	BURLINGTON RESCURCES Oil & Gas Company	
	RESOURCES Oil & Gas Company	2000 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
	(FOF) 326-9700	9. Well Number
	(505) 326-9700	#63C
1.	Location of Well	10. Field, Pool, Wildcat
	1560' FSL, 2385' FEL	Blanco Mesaverde, Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 44.2363'N, Longitude 107° 33	
		API # 30-045-
	Distance in Miles Comp No.	7039 27710
14.	Distance in Miles from Nearest Town 24.9 miles to Blanco, NM Post Office	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or L 1560'	ease Line
16.	Acres in Lease	17. Acres Assigned to Well
		DK 320 E/2
		MV 320 E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Co	omplor Applied for on this Lease
	1053'	Simply of Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	7614'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6292' GR	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	() man () () a company	A () =1
	Authorized by:	2-9-06
24.		
24.	Regulatory Specialist	Date
· · · · · · · · · · · · · · · · · · ·	Regulatory Specialist	Date
24. PERM	Regulatory Specialist	Date VAL DATE
PERM	Regulatory Specialist IT NO. APPRO	
PERM	Regulatory Specialist	Date VAL DATE

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.

NO HPA NOTIFICATION REQUIRED UNDER ORDER R-8768F.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NMOCD

DISTRICT I 1625 N. Franch Dr., Hobbs, N.M. 86240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

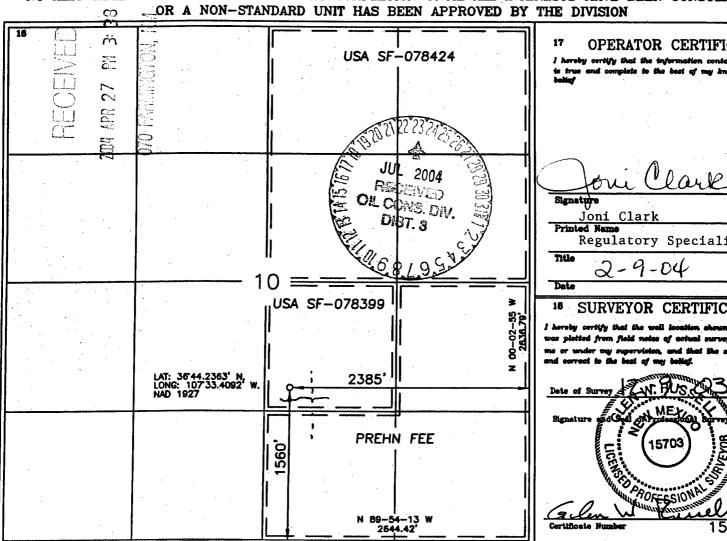
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	*Pool Code	*Pool Name	
30-039- 27	7/10 72319/71599	Blanco Mesaverde/Basin Dakota	
⁴ Property Code			• Well Number
7465	SAN JUAN	1 29-7 UNIT	63C
OGRID No.	*Op	erator Name	* Elevation
14538	BURLINGTON RESOURCES	OIL AND GAS COMPANY LP	6292'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
J	10	29-N	7-W		15 60 °	SOUTH	2385'	EAST	RIO ARE	RIBA
			11 Botte	om Hole	Location I	f Different Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	-
¹³ Dedicated Acre	•		" Joint or	hfill	M Consolidation	Code	¹⁶ Order No.			·
DK E/2 32	20				*					•
MV E/2 32	20									

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



OPERATOR CERTIFICATION

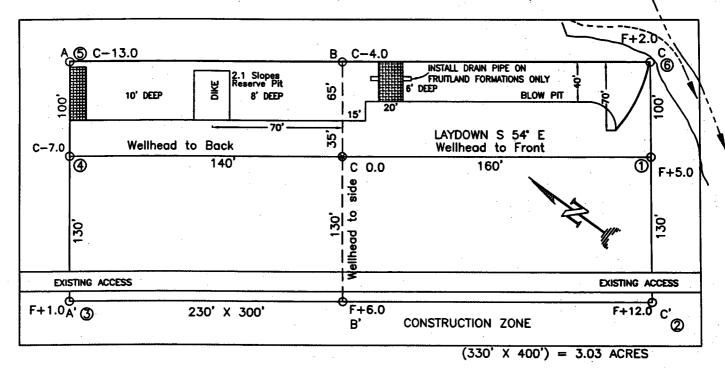
Regulatory Specialist

SURVEYOR CERTIFICATION

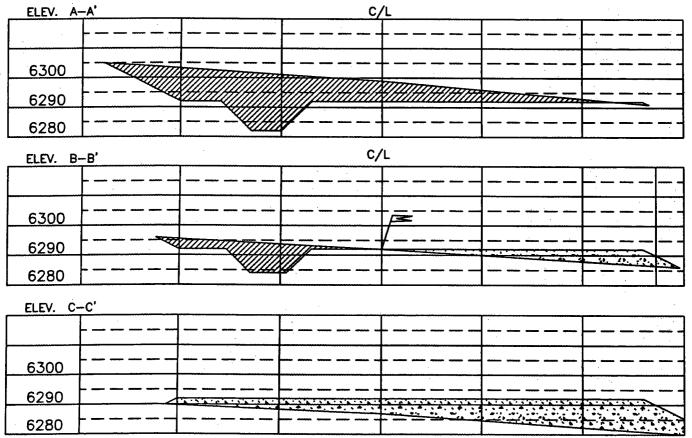


Office \	District		e of New Me			Form C-	
District I	00040	Energy, Mine	erals and Natu	ral Resources	WELL API NO.	March 4, 2	2004
· 1625 N. French Dr., Hobbs, NM District II	88240	OII CONC	EDVATION	DIVICION	30-045-		
1301 W. Grand Ave., Artesia, N. District III	M 88210		ERVATION outh St. Fran		5. Indicate Type		
1000 Rio Brazos Rd., Aztec, NM	1 87410		ta Fe, NM 87		STATE	FEE L	
District IV 1220 S. St. Francis Dr., Santa Fe 87505	, NM	Sam	ia re, inivi 67	303	6. State Oil & G SF-078399	ias Lease No.	
SUNDF (DO NOT USE THIS FORM FO DIFFERENT RESERVOIR. US	OR PROPOS	CES AND REPORT ALS TO DRILL OR TO ATION FOR PERMIT"	DEEPEN OR PLU	JG BACK TO A	7. Lease Name of San Juan 29-7	or Unit Agreement Nar Unit	ne
PROPOSALS.) 1. Type of Well: Oil Well Gas	Well 🛛	Other			8. Well Number	#63C	
Name of Operator Burlington Resources Oi	1 & Gas C	Company LP			9. OGRID Num	ber 14538	
3. Address of Operator 3401 E. 30 th Street, Farm					10. Pool name of Blanco Mes	r Wildcat averde/Basin Dakota	
4. Well Location		4,5.	3'				
Unit LetterJ	:	1560 feet from the	he <u>South</u> li	ne and 2385 feet t	from the <u>East</u>	line	
Section 10	·)	Township 2	29N R:	ange 7W	NMPM Rio Ar	riba County, NM	
South				RKB, RT, GR, etc.		rica County, 1411	
Dia - D. l 4 T - 1 A 1		nia on bolom on Joacon	l1	6144 41 41	1)		
Pit or Below-grade Tank Application: ULSect						mooneet freeh westen well	
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BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 29-7 UNIT #63C, 1560' FSL & 2385' FEL SECTION 10, T-29-N, R-7W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6292', DATE: NOVEMBER 24, 2003



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 BLOW PIT.



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUNG UTILITIES OR PIPELINES.

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 29-7 Unit #63C

Location: 1560'FSL, 2385' FEL, Section 10, T-29-N, R-7-W

Rio Arriba County, New Mexico

Latitude 36° 44.24, Longitude 107° 33.41

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6292'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2139'	
Ojo Alamo	2139′	2329'	aquifer
Kirtland	2329'	2884'	gas
Fruitland	2884'	3124'	
Pictured Cliffs	3124'	3319'	gas
Lewis	3319 '	3864 ′	gas
Intermediate TD	3419'		-
Huerfanito Bentonite	3864'	4109'	gas
Chacra	4109'	4679'	gas
UpperCliff House	4679 '	4874'	-
Massive Cliff House	4874'	4994'	
Menefee	4994'	5314'	gas
Point Lookout	5314'	5714'	gas
Mancos	5714 ′	6979 ′	gas
Gallup	6979 '	7287 ′	gas
Greenhorn	7287 '	7339'	gas
Graneros	7339'	7387'	gas
Dakota	7387 ′	7492 '	gas
Upper Cubero	7 492′	7519 ′	
Lower Cubero	7519 ′	7606 ′	
Oak Canyon	7606 ′		
TD	7614'		

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- 120'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
120- 3 419'	LSND	8.4-9.0	30-60	no control
3419- 6322 ′	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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#	H-40
8 3/4"	0' - 3419'	7" 20.0#	J-55
6 1/4"	0' - 7614'	4 1/2" 10.5#	J-55

Tubing Program: 0' - 7614' 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 $\frac{1}{2}$ " 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 -

Pre-Set Drilled Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (37 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.

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 301 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 (765 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/30 sxs Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% sodium metascilicate, 0.4% fluid loss. Tail w/90 Type

III cmt w/1%calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: Cmt w/271 sxs Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (765 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 @ 2329'. Two turbolating centralizers at the base of the Ojo Alamo 2329'. 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 $289\ \text{sacks}$ Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (571 cu. ft.-30% excess to cement 4 $1/2" \times 7"$ overlap). WOC a minimum of 18 hrs prior to completing.

Cement float collar stacked on top of float shoe.

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 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 below the top of the Pictured Cliffs.
- The west half of Section 10 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Slan Lorigan
Drilling Engineer

Date

Jebway 25, 2004

Date

Phones #2