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

	Type Collaboration 22 CT 2 CT		
	Type of Work	5. Lease Number	K 1
	RECEIVED AND	Unit Reporting Nu	mher
	ATA FIRMMOTON 111	Unit Reporting Num N/m N/m - 73 9/17	B AMNMO7
	Type of Well	MI 2000 OF All Mulan, All. Of Th	ibe
	GAB (C)		
	G and	MUnit Agreement N	
	Operator BURLINGTON RESCURCES Oil & Gas Company	Unit Agreement N	ame
	RESCURCES Oil & Gas Company	San Juan 29-7	Unit
	The same of the sa	62071797.5	
	Address & Phone No. of Operator	8. Farm or Lease Nan	ne
	PO Box 4289, Farmington, NM 87499		
	(505) 326-9700	9. Well Number #79M	
	(505) 326-9700	# / 3M	
	Location of Well	10. Field, Pool, Wildo	at
	Unit E (SWNW), 2210' FNL, 735' FWL	Blanco Mesaverde/ Bas	
	Latitude 36° 45.3528'N	11. Sec., Twn, Rge, N Sec. 5, T29N, R	Иer. (NMPM) Лум
	Longitude 107° 36.0129'W	/ Sec. 3, 129N, R	υ / <del>Π</del>
	202922440 20, 30,022, 11	API # 30-039-29	872
	Distance in Miles from Nearest Town	12 County	13. State
	14.7 miles to Blanco, NM	12. County Rio Arriba	NM
	Distance from Proposed Location to Nearest Property	or Lease Line	
	735' Acres in Lease	17 Acros Assigned t	a Mali
	ACIES III LEGSE	17. Acres Assigned t 315.1 W2 MV/DK	O AAGU
	Distance from Proposed Location to Nearest Well, Dr	lg, Compl, or Applied for on this Leas	9
	1795'- San Juan 29-7 Unit #46B		
•	Proposed Depth 7501'	20. Rotary or Cable 1	ools
	7501	Rotary	
	Elevations (DF, FT, GR, Etc.)	22. Approx. Date W	ork will Start
	6183'GL	.,,	
	Proposed Casing and Cementing Program See Operations Plan attached		
	see Operations Plan attached		
	1 9 0		
	Authorized by: Amandas Janah	6-22-	06
	Regulatory Analyst	Date	
_			
8417	· NO	DODOVAL DATE	
/1881/	NO.	PPROVAL DATE	
PRO	VED BY TITLE	ATM DATE	7/10/10
			1100
	ological Report attached		

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT IV 1220 S. St. Fran	ncis Dr., San	ita Fe, NM 87	505					☐ A)	MENDED REPORT
		V	VELL L	OCATIO:	N AND AC	REAGE DEDI	CATION PL	AT	
30-039-	PI Number	りる	7150	*Pool Code 9 / 723	19 Ras	sin Dakota /	Pool Name Blanco Mesa		
Property		100	7139	9 / 123	<sup>6</sup> Property			T	* Well Number
7465 SAN JUAN 29-							79 <b>M</b>		
OGRID No. Operator							• Elevation		
14538 BURLINGTON RESOURCES OIL				AND GAS COMPA	NY LP		6183'		
						Location			
UL or lot no. E	Section 5	Township 29-N	Range 7-W	Lot Idn	Feet from the 2210'	North/South line NORTH	Feet from the 735'	East/West lin WEST	e County RIO ARRIBA
<u>_</u>		20-14		om Hole		f Different Fro		MED1	NO ARRIDA
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West lin	e County
E									
Dedicated Ac	res		15 Joint or	infill	<sup>14</sup> Consolidation (	Code	16 Order No.		
MV/DK 3	15.1 ac	W2							
NO ALLO	WABLE W								CONSOLIDATED
			ION-STA	NDARD (	UNIT HAS BE	EN APPROVED	17	<del></del>	
1	S 89' 58 2640	5′02″E 0.71′		11			OPER		RTIFICATION
LOT 8		LOT 7	X	Lor	6	LOT 5	is true and		mation contained herein est of my knowledge and
	ļ.	LAT: 36°45.3	528' N	]			a working in	terest or unleased	l mineral interest in the stiom hale location or at this location pursuant
<b>20</b>	- 1	LONG: 1073 NAD 1927	8.0129' W.	! ]			has a right to a contract	to drill this well with an owner of terrent or to a sec	at this location pursuant of such a mineral or tuntary pooling agreement heretofore entered by the
	{	NAD 1001		.			or a compula	ory pooling order	heretofore entered by the
2558. 2558.				H					
m	,,	LAT: 36'45'2	1.2" N	ļ ļ				$\sim$	- n
	<u> </u>	LONG: 1073 NAD 1983	B'03.0" ₩.	<u> </u>			1 Jan		Sarah
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	WGA GE	022054		] }	1		11		RTIFICATION
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	-	V						my supervision, a the best of my	nd that the same is true belief.
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		····					Date of Surv	STEEL W. TO	
						<del>_</del> _	Signature	A STATE OF THE STA	Manal Surveyor
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	-		, I				ale	~ Manney	ersell
				<u> </u>			Certificate N	umber	15703

Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	2	WELL API NO.
District II	OH CONCEDUATION DIVISION	30-039- 0/ / / 05
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease  STATE X FEE
District III	1220 South St. Francis Dr.	
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		NMSF-078951
SUNDRY NOTICE	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
· ·	O DRILL OR TO DEEPEN OR PLUG BACK TO A	2
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 29-7 Unit
1. Type of Well:	•	8. Well Number
Oil Well Gas Well X	Other	79M
2. Name of Operator		9. OGRID Number
BURLINGTON RESOL  3. Address of Operator	RCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
	ET, FARMINGTON, NM 87402	Blanco Mesaverde / Basin Dakota
4. Well Location	21,111111111111111111111111111111111111	Dianes Moseverder Busin Bureto
1	10' feet from the North line and	735' feet from the West line
Section 5	Township 29N Rng 7W Revation (Show whether DR, RKB, RT, GR, etc.)	NMPM County Rio Arriba
	183' GL	
Pit or Below-grade Tank Application	or Closure	Her at the sector working are all stays a recount a role and the section of the s
Pit type New Drill Depth to Groundwar	er >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water <1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material
12 Charle A		tion Donort or Other Date
	ppropriate Box to Indicate Nature of No	· •
NOTICE OF INT	<del>-</del> 1	SUBSEQUENT REPORT OF:
	PLUG AND ABANDON REMEDIA	
TEMPORARILY ABANDON PULL OR ALTER CASING		CE DRILLING OPNS. P AND A DEMENT JOB
	_	
OTHER: New Dri		
	operations. (Clearly state all pertinent details, and	
or starting any proposed work). or recompletion.	SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion
or recompletion.		
No. B. W. Cook		
New Drill, Lined:		
	struct a new drilling nit and an associated vent/flare	nit Rased on Burlington's interpretation of the
Burlington Resources proposes to cons	struct a new drilling pit and an associated vent/flare	
Burlington Resources proposes to cons Ecosphere's risk ranking criteria, the r	new drilling pit will be a lined pit as detailed in Burl	ington's Revised Drilling / Workover Pit Construction /
Burlington Resources proposes to cons Ecosphere's risk ranking criteria, the r Operation Procedures dated November	new drilling pit will be a lined pit as detailed in Burl 11, 2004 on file at the NMOCD office. A portion of	ington's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and
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LATITUDE:

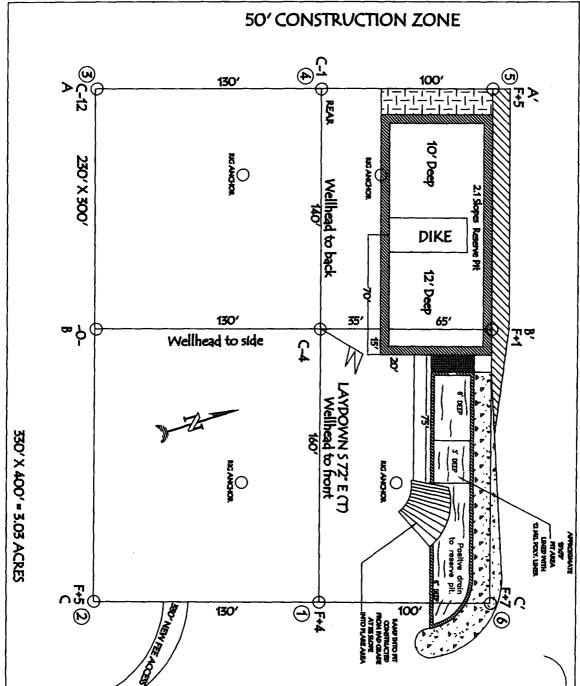
8

45.3528'

Z

LONGITUDE:

107 36.0129' W NAD27

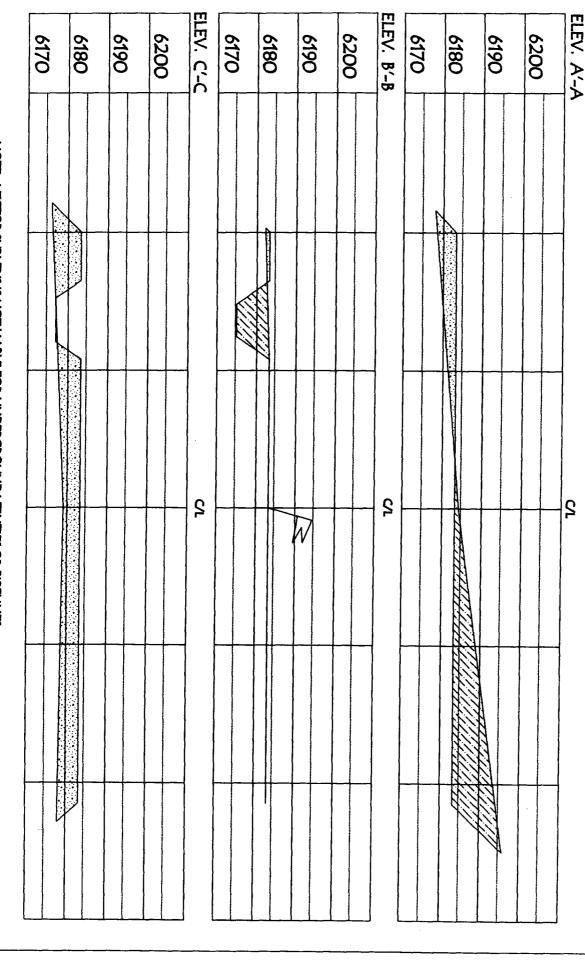


NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# SAN JUAN 29-7 UNIT #79M, 2210' FNL & 735' FWL SECTION 5, T-29- N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM BURLINGTON RESOURCES OIL & GAS COMPANY LP GROUND ELEVATION: 6183', DATE: MARCH 21, 2006



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

## OPERATIONS PLAN

Well Name:

SAN JUAN 29-7 UNIT 79M

Location:

2210' FNL & 735' FWL, Section 05 T29N R07W

Rio Arriba County, New Mexico

Formation:

Basin Dakota/Blanco Mesaverde

Elevation:

6183' GL

Formation Tops:	Top	<b>Bottom</b>	<u>Contents</u>
Surface	San Jose	2055'	
Ojo Alamo	2055'	2127 '	aquifer
Kirtland	2127'	2740'	gas
Fruitland Coal	2740'	2980'	gas
Pictured Cliffs	2980'	3155'	gas
Lewis	3155'	3740'	
Huerfanito Bentonite	3740'		
Chacra	3982 '	4715'	gas
Massive Cliff House	4715'	4822'	gas
Menefee	4822'	5182'	gas
Massive Point Lookout	5182'	5590'	gas
Mancos Shale	5590'	6433 '	
Upper Gallup	6433'	י 7172	gas
Greenhorn	7172'	7228 '	gas
Graneros	7228'	7289 '	gas
Two Wells	7289'	7399 '	gas
Upper Cubero	7399 '	7428 '	gas
Lower Cubero	7428'	7501'	gas
Encinal	7501'	7501'	gas
Total Depth:	7501'		gas

## Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

### Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3255'	LSND	8.4 - 9.0	30 - 60	no control
3255' - 7501'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3255'	7"	20#	J-55
6 1/4"	0' - 7501'	4 1/2"	10.5#/11.6#	J-55

### Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7501'	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, BOPE 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, BOPE 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. (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.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under 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.

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

### 7" intermediate casing -

Lead with 284 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 (124 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/28 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 255 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (728 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 @ 2127'. Two turbolating centralizers at the base of the Ojo Alamo @ 2127'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

## 4 1/2" Production Casing -

Pump 279 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (550 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

### Cementing: Continued

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:

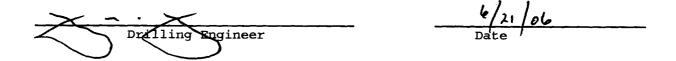
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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:

- This will be a Mesaverde and Dakota producing well.
- 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	2000 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 5 is dedicated to the Dakota formation.
- This gas is dedicated.



Completion/Workover Rig BOP Configuration 2,000 pai System

**Burlington Resources** 

2000 psi System **Drilling Rig** 

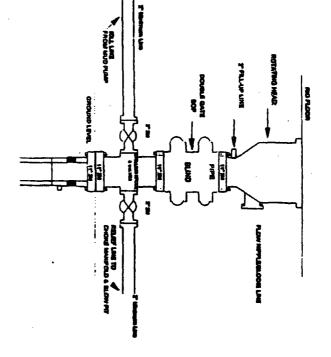


Figure #1

10-01

Potel to Total Depth. 2,000pal working pressure ston from Burtace Casing

Figure #3

he BOP. All BOP equipment to 2000 pel working dinfrum 60P installation for eff Com we ranne. A stripping insed to be installed on the top of terations. 7-1/16" bors, 2000 pel minimum working are double gate BOP to be equipped with blind and re or greater excluding 600 pel etripping hoad

4-20-01