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



а.	Type of Work DRILL	5. Lease Number SF- <del>078919 ວຽງ ໄ</del> ຊກາເຄດ Unit Reporting Number
b.	Type of Well GAS	6. If Indian, All. or Tribe
<u>.</u> !.	Operator BURLINGTON	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 29-7 Unit
1.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name San Juan 29-7 Unit 9. Well Number
	(505) 326-9700	#82B
١.	Location of Well	10. Field, Pool, Wildcat
	835' FNL, 140' FEL	Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 45.5761'N, Longitude 107° 34.0315'	WA-Sec. 4, T29N, R07W API# 30-039- 27697
4.	Distance in Miles from Nearest Town	12. County 13. State
	29.95 miles to Intersection Hwy 64 & Hwy 550	Rio Arriba NM
	in Bloomfield, NM	
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
6.	Acres in Lease	17. Acres Assigned to Well
		317.38 E/2 MV
		317.38 E/2 DK
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	r Applied for on this Lease
9.	Proposed Depth	20. Rotary or Cable Tools
	7567′	Rotary
21.	Elevations (DF, FT, GR, Etc.) 6223′ GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
	( ) A A 12	
	Authorized by: the Clark	3/8/04 Date
4.	Regulatory Specialist	= <del>-</del> -
	Regulatory Specialist  IIT NO. APPROVAL DA	ATE
PERM	30 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ATE

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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED.

This action is subject to technical and

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DISTRICT IV 2040 South Paci

OIL CONSERVATION DIVISION

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

### 2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

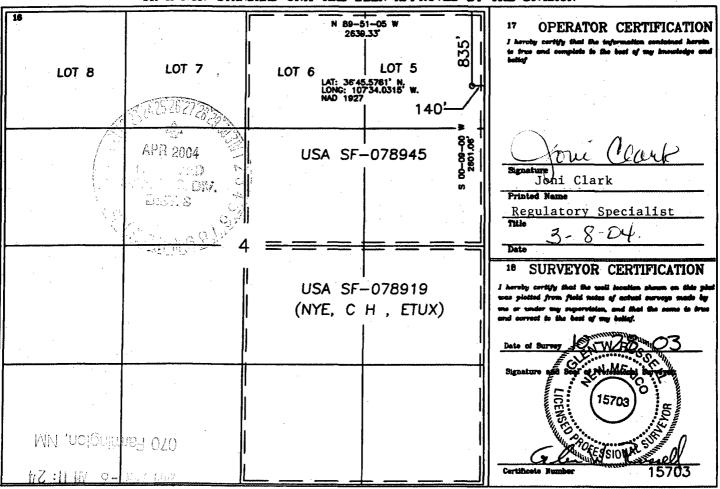
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	70(9) Pool Code	Pool Name	
30-039-	C/69 / 71599/72319	Basin Dakota/Blanco Mesaverde	
<sup>4</sup> Property Code	°Pr	operty Name	* Wall Number
7465	SAN JUAN	29-7 UNIT	82B
OGRID No.	*0p	erator Name	* Elevation
14538	BURLINGTON RESOURCES	S OIL AND GAS COMPANY LP	6223'

<sup>10</sup> Surface Location

UL or lot no.	Section 4	Township 29—N	Range 7-W	Lot idn	Feet from the 835'	North/South line NORTH	Feet from the 140'	East/West line EAST	County RIO ARRIBA
			11 Bott	om Hole	Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre MV E/317			<sup>3</sup> Joint or	Infill .	<sup>M</sup> Consolidation (	Code	*Order No.		<u> </u>
DK E/317	38						İ		•

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



#### OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #82B

Location: 835'FNL, 140' FEL, Section 4, T-29-N, R-7-W

Rio Arriba County, New Mexico

Latitude 36° 45.58'N, Longitude 107° 34.03'W

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6223'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2075'	
Ojo Alamo	2075 <b>′</b>	2265'	aquifer
Kirtland	2265'	2850'	gas
Fruitland	2850 <b>′</b>	3087 <b>′</b>	
Pictured Cliffs	3087'	3225'	gas
Lewis	3225 <b>′</b>	3820 <b>′</b>	gas
Intermediate TD	3325′		
Huerfanito Bentonite	3820 <b>'</b>	4105′	gas
Chacra	4105'	4615'	gas
UpperCliff House	4615'	4825'	
Massive Cliff House	4825′	4915'	
Menefee	4915 <b>'</b>	5255 <b>′</b>	gas
Point Lookout	5255 <b>'</b>	5600 <b>′</b>	gas
Mancos	5600 <b>′</b>	6542 <b>′</b>	gas
Gallup	6542 <b>′</b>	7265 <b>′</b>	gas
Greenhorn	7265'	7318'	gas
Graneros	7318'	7385'	gas
Dakota	7385 <b>′</b>	7475′	gas
Upper Cubero	7475′	7503 <b>′</b>	
Lower Cubero	7503 <b>′</b>	7557 <b>′</b>	
Oak Canyon	7557 <b>′</b>		
TD	7567 <i>′</i>		

#### 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- 3325'	LSND	8.4-9.0	30-60	no control
3225- 7567 <b>'</b>	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' - 3325'	7"	20.0#	J-55
6 1/4"	0' - 7567'	4 1/2"	10.5#	J-55

**Tubing Program:** 0' - 7567' 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 291 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 (744 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/24 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/267 sxs Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (744 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 @ 2265'. Two turbolating centralizers at the base of the Ojo Alamo 2265'. 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 -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 291 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (577 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 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 east half of Section 4 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Sean Corregan	april 6. 2004
Drilling Engine#r	Date

#### Drilling Rig Choke Manifold Configuration 2000 psi System

# ADJUSTABLE OR POSITIVE CHOKE

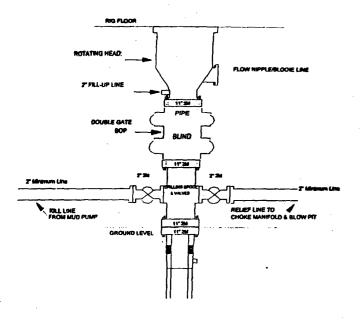
Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

#### **BURLINGTON RESOURCES**

#### **Drilling Rig** 2000 psi System

**Burlington Resources** 



BOP installation from Surface Cealing Point to Total Depth. 11" Bore 10" Nominel, 2000 pal working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 pal rotating head on top of ram preventers. All BOP equipment is 2,000 psi working pressure

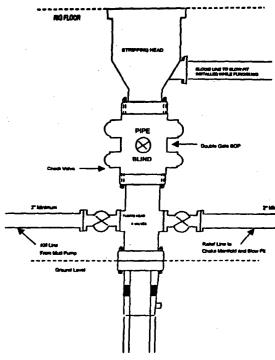
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Figure #1

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#### **BURLINGTON RESOURCES**

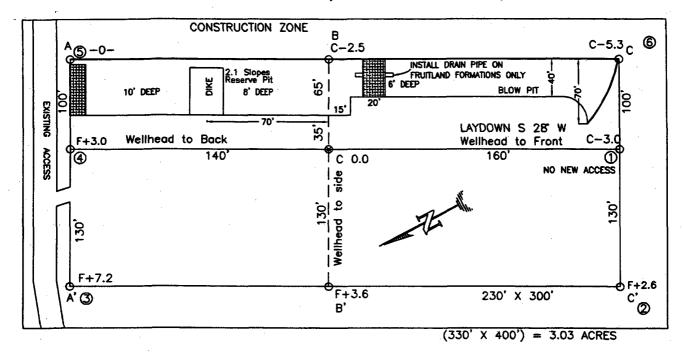
Completion/Workover Rig **BOP Configuration** 2,000 psi System



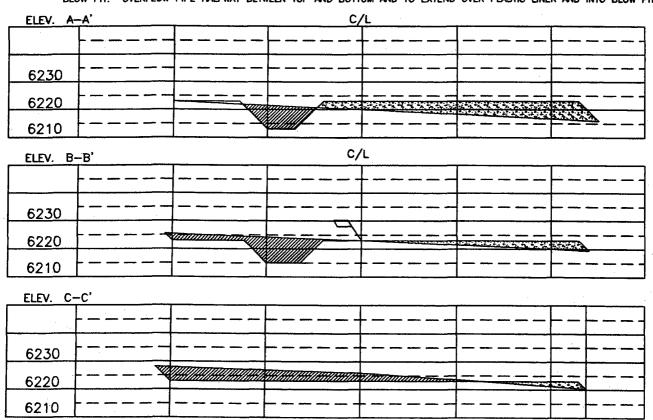
Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psl stripping head.

Figure #2

## SAN JUAN 29-7 UNIT #82B, 835' FNL & 140' FEL SECTION 4, T-29-N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6223'. DATE: OCTOBER 28, 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.