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

	Type of Work	700 70 71	5. Lease Number	23 PM 3:5
	DRILL	13 78 29 30 311 13	SF-080673	
		150C	Unit Reporting Nun	iber Imington, Ni
1h	Type of Well	JUL ST	If Indian, All. or Trib	
1b.	GAS	200a		
			3	
2.	Operator	G Gor On.	(I) Unit Agreement Na	me
	BURLINGTON RESOURCES Oil &		, J	
	RESCURCES ON &	Gas Company	Ž	
3.	Address & Phone No. of Operator	SISIVI SINCE	8. Farm or Lease Nam	ne
	PO Box 4289, Farmingto		San Juan 27-4 Un	it
	·		9. Well Number	
	(505) 326-9700		5 <b>N</b>	
4.	Location of Well		10. Field, Pool, Wildca	at
→.	2080' FSL, 2460' FEL		Blanco MV/Basin	
	2000 151, 2400 111		pranco my basin	<b>-</b> 10
			11. Sec., Twn, Rge, Me	er. (NMPM)
Lati	tude 36° 35.1555'N, Longit	ude 107° 17.4317'W	$\mathcal{J}$ Sec. 7, T-27-N,	R-4-W
			API # 30_045-	7632
14.	Distance in Miles from Nearest To	NAME:	039 2 12. County	<u> 13. State</u>
14.	Governador 18 Miles	)	Rio Arriba	NM
	Sovernador 10 miles		NIO AILIDU	141.3
15.	Distance from Proposed Location	to Nearest Property or Lease L	ine	
	2080 <b>′</b>			
46	Acros in Losse		17 Agree Assigned to	\/\all
16.	Acres in Lease		17. Acres Assigned to	Well
16.	Acres in Lease		17. Acres Assigned to	Well
	Distance from Proposed Location	to Nearest Well, Drig, Compl, o	320 E/A	
18.	Distance from Proposed Location 1400'	to Nearest Well, Drlg, Compl, o	or Applied for on this Lea	se
18.	Distance from Proposed Location 1400' Proposed Depth	to Nearest Well, Drlg, Compl, o	or Applied for on this Lea  20. Rotary or Cable To	se
18.	Distance from Proposed Location 1400'	to Nearest Well, Drig, Compl, o	or Applied for on this Lea	se
16. 18. 19. 21.	Distance from Proposed Location 1400' Proposed Depth	to Nearest Well, Drig, Compl, o	or Applied for on this Lea  20. Rotary or Cable To	se
18. 19.	Distance from Proposed Location 1400' Proposed Depth 8193	to Nearest Well, Drig, Compl, o	or Applied for on this Lea  20. Rotary or Cable To	se
18. 19. 21.	Distance from Proposed Location 1400' Proposed Depth 8193 Elevations (DF, FT, GR, Etc.) 6905 GR, 6917 KB		or Applied for on this Lea  20. Rotary or Cable To	se
18. 19. 21.	Distance from Proposed Location 1400' Proposed Depth 8193 Elevations (DF, FT, GR, Etc.) 6905 GR, 6917 KB Proposed Casing and Cementing	Program	or Applied for on this Lea  20. Rotary or Cable To	se
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**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 "GENERAL HEQUIREMENTS".



PO Box 1980, Hopps, NM 68241-1980

Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back

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

OIL CONSERVATION DIVISION

District II PO Orawer DD. Artesia, NM 88211-0719 PO Box 2088 Santa Fe, NM 87504-2088 District III 1000 Rio Brazos Rd. Aztec. NM 87410

AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT												
'API Number 'Pool Code 'Pool Name												
1	-039- Property	Code /							13 hh.			
745		ty Code Property Name Well Number SAN JUAN 27-4 UNIT 5N										
	'OGRID N							levation				
BURLINGTON RESOURCES OIL & GAS COMPANY, LP 69					6905							
						10 Surface				<u> </u>		
"	UL or lot no. Section 7		Township Range Lo		Lot Idn	2080					est line	RIO
		<u></u>	11 E	Bottom	Hole L	l_ocation I	f Different	Fro	rom Surface			ARRIBA
u.	or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line		t from the		est line	County
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#### OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #5N

Location: 2080'FSL, 2460' FEL, Section 7, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 35.1555'N, Longitude 107° 17.4317'W

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6905'GR

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	3152'	
Ojo Alamo	3152'	3322'	aquifer
Kirtland	3322'	3597 <b>'</b>	gas
Fruitland	3597 <b>′</b>	3777 <b>′</b>	
Pictured Cliffs	3777 <b>'</b>	3857 <b>'</b>	gas
Lewis	3857 <b>′</b>	4317 <b>'</b>	gas
Intermediate TD	3957′		
Huerfanito Bentonite	4317'	4917 <b>'</b>	gas
Chacra	5327 <b>′</b>	5447'	gas
Cliff House	5 <b>447</b> ′	5577 <b>′</b>	
Menefee	5577 <b>′</b>	5917 <b>'</b>	gas
Point Lookout	5917 <b>'</b>	6454'	gas
Mancos	6454 <b>′</b>	7097 <b>′</b>	gas
Gallup	7097 <b>′</b>	7861 <b>'</b>	gas
Greenhorn	7861'	7927 <b>'</b>	gas
Graneros	7927 <b>'</b>	7962'	gas
Dakota	7962 <b>'</b>	8077	gas
T/Upper Cubero	8077 <b>'</b>	8126 <b>'</b>	gas
T/Lower Cubero	8126 <b>'</b>	8178 <b>′</b>	gas
T/Oak Canyon	8178′		
TD	8193'		

#### 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:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
200- 3957 <b>′</b>	LSND	8.4-9.0	30-60	no control
3957- 8193 <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' - 200'	9 5/8" 32.3#	H - 40
8 3/4"	0' - 3957'	7" 20.0#	J-55
6 1/4"	0' - 7800'	4 1/2" 10.5#	J-55
6 1/4"	7800' - 8193'	4 1/2" 11.6#	N-80

Tubing Program: 0' - 8193' 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 ½" 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 conventionally drilled Cement with 147 sacks Type III cement with 0.25 pps Celloflake, 3% calcium
chloride. (188 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 356 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 (882 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 12 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: Lead with 344 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 (882 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 @ 3322'. Two turbolating centralizers at the base of the Ojo Alamo 3322'. 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:

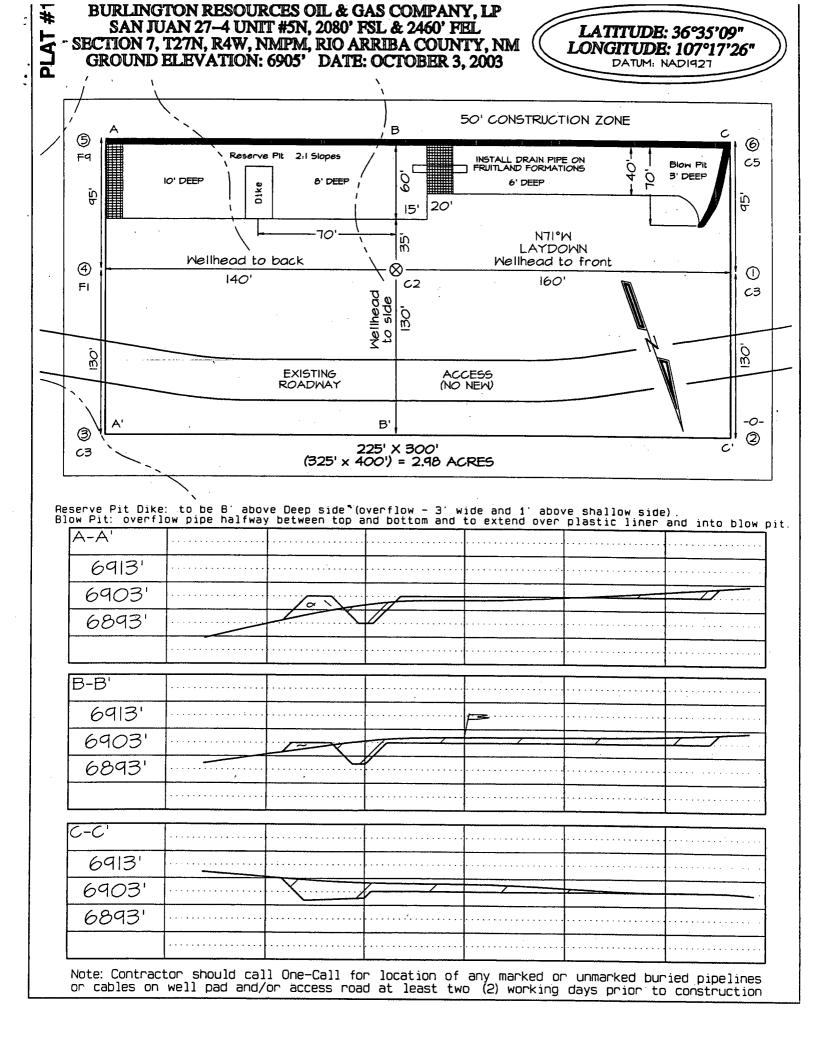
- The Mesa Verde and Dakota formation will be completed and Commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

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 7 is dedicated to the Mesa Verde and the Dakota.
- This gas is dedicated.

Lean Corrigion Tebruary 20, 2004

Drilling Engineer Date

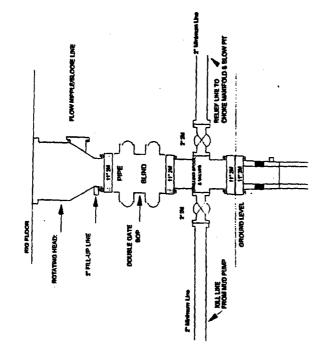


Completion/Workover Rig BOP Configuration 2,000 psi System

# BURLINGTON RESOURCES

## **Burlington Resources**

2000 psi System **Drilling Rig** 



1 10 m Drilling Rig Choke Manifold Configuration 2000 psi System TUNE

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

Figure #3

4-20-01

Figure #1

AND PLOOR Over Value

TO PIT

pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure or greater excluding 500 psi stripping head. the BOP. All BOP equipment is 2000 psi working Figure #2

4-20-01