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

1a.	Type of Work	5. Lease Number
	DRILL	NMSF-079677) Farmington
	6577 73 74 72 C	Unit Reporting Number
1b.	Type of Well	6, If Indian, All. or Tribe
	GAS AIA	
2.	Operator Description	7. Unit Agreement Name
۷.	BURLINGTON	Agreement Name
	RESOURCES OIL & GAS COMPAND LP	San Juan 27-4 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499 681	San Juan 27-4 Unit
	(505) 326-9700	9. Well Number 29B
	(303) 320 3700	235
4.	Location of Well	10. Field, Pool, Wildcat
	1950' FNL, 2230' FEL,	Blanco Mesaverde
	T. + : +	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 32.8, Longitude 107° 13.1	Sec. 26, T-27-N, R-4-W
		27631
14.	Distance in Miles from Nearest Town	12. County 13. State
	22 miles from Gobernador	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Leas	e Line
	1950'	4
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2
	•	320 E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Comp	l, or Applied for on this Lease
	1700'	
19.	Proposed Depth	20. Rotary or Cable Tools
	6656'	Rotary
		·
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7264' GR	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	$\sim 1$ $\sim 1$	,
24.	Authorized by: Janey Vlamanns	1-30-04
	Senior Staff Specialist	Date
<del></del>		
PERM	IIT NO. APPROVAL	. DATE
יחחה	OVED BY AMAGE TITLE AF	DATE 8-24-09
	UVEURI <i>NEJYALI (MA 18 AM</i> ) 1111 F <i>F4 [ 1</i>	' - '   DATF /)ニューアーハラ

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted 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 MEQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

PO Box 1980, Hobbs, NM 88241-1980 Instructions on back Energy, Minerals & Natural Resources Department District II PO Drawer DO, Artesia, NM 88211-0719 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 208B - District III-1000 Rio Brazos Rd. Aztec, NM 87410 Santa Fe, NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Pool Code API Number 30-039-Blanco Mesaverde Property Name Well Number Property Code SAN JUAN 27-4 UNIT 29B 7452 Elevation 'DGRID No. \*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP 7264 14538 <sup>10</sup> Surface Location Feet from the North/South lane LL or lot mb. Lot Ion FOUR From the ENDL/HOSE JAME RIO 4W 25 27N 1950 G NORTH 2230 EAST ARRIBA 11 Bottom Hole Location Different From Surface UL or jot no. Feet from the County East/West line A Dedicated Acres dubint or Infall " Coreolidation Code Droter No. MV - E / 320NO 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 5269.44 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief AUG 2004 36 32.8 N 107 13.1 N Signature Nancy Oltmanns Printed Name Senior Staff Specialst Title 1-30-04 Date 2230 SURVEYOR CERTIFICATION 5280.00 8 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys mode by me or under my supervision, and that the same is true and correct to the best of my belief. 5280 Survey Date: OCTOBER 30, 2001 SF-079527 Signature and Small of Professional Surveyor EDWARD MEXICO MM ',notgnimia 970 प्राथ है । इस में १०। A OFESSION

5266.80

EDWARDS

15269

Certificate Number

### OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #29B

Location: 1950'FNL, 2230' FEL, Section 26, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 32.8, Longitude 107° 13.1

Formation: Blanco Mesa Verde

Elevation: 7264'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	3551'	
Ojo Alamo	3551 <b>′</b>	3746'	aquifer
Kirtland	3746'	3946'	gas
Fruitland	3946 <b>′</b>	4106′	
Pictured Cliffs	4106'	4206'	gas
Lewis	4206′	4601'	gas
Intermediate TD	4456'		
Huerfanito Bentonite	4601'	5076 <b>′</b>	gas
Chacra	5076 <b>′</b>	5916'	gas
Cliff House	5916 <b>′</b>	5951 <b>′</b>	
Menefee	5951 <b>′</b>	6256 <b>′</b>	gas
Point Lookout	6256'		gas
TD	6656′		

### 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- 200'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
200- <b>44</b> 56'	LSND	8.4-9.0	30-60	no control
4456- 6688'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

### 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' - 4000'	7" 20.0#·	J-55
8 3/4"	4000' - 4456'	7" 23.0#	L-80
6 1/4"	4356' - 6656'	4 1/2" 10.5#/11.6	6# J-55

**Tubing Program:** 0' - 6656' 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.

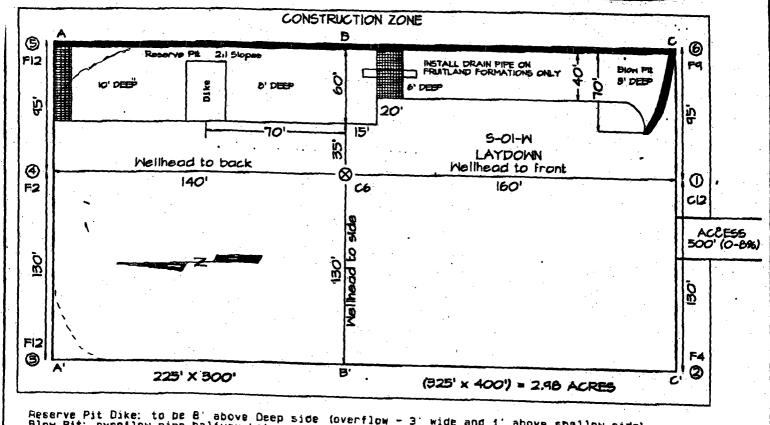
### Surface to Total Depth -

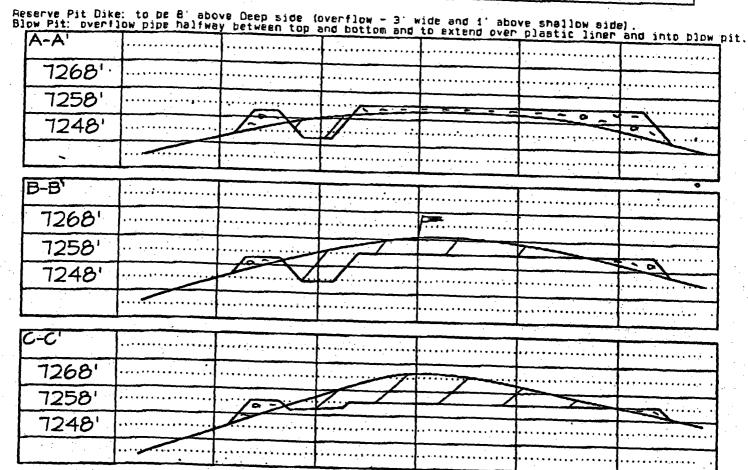
2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

SAN JUAN 27-4 UNIT #29B, 1950' FNL & 2230' FEL SECTION 26, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND BLEVATION: 7264' DATE: OCTOBER 30, 2001

LATITUDE: 36°32'47"
LONGITUDE: 107°13'08"

DATUM: NADI927





Note: Contractor should call One-Call for location of any, marked or unmarked buried pipelines or cable on well pad and/or access road at least two (2) working days prior to construction

### 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 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 408 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 (994 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 28 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: 381 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 (989 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 @ 3829'. Two turbolating centralizers at the base of the Ojo Alamo 3829'. 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 -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 168 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (333 cu.ft., 40% 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.

## Operations Plan - San Juan 27-4 Unit #29B

### Page Three

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 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.

Late Date

- The east half of Section 26 is dedicated to the Mesa Verde.
- This gas is dedicated.

Sear Conyan
Drilling Engineer

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Completion/Workover Rig BOP Configuration 2,000 psi System

# **BURLINGTON RESOURCES**

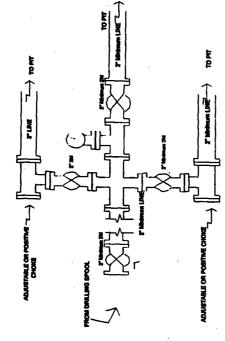
Drilling Rig Choke Manifold Configuration 2000 psi System

**Burlington Resources** 

2000 psi System **Drilling Rig** 

NO FLOOR

ROTATING HEAD:



1 2 E

T FRILUP LINE

DOUBLE GATE

R

2' Merimum Line

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

Figure #3

4-20-01

Figure #1

pressure double gate BOP to be equipped with blind and sipe rams. A stripping head to be installed on the top of Minimum BOP instaliation 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