

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

2195' FNL, 530' FWL, Sec.33, T-28-N, R-6-W, NMPM

5. Lease Number  
SF-079049B

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 28-6 Unit

8. Well Name & Number

San Juan 28-6 U #116N

9. API Well No.

30-039-26296

10. Field and Pool

Blanco MV/Basin DK

11. County and State

Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

Notice of Intent

Abandonment

Change of Plans

Subsequent Report

Recompletion

New Construction

Final Abandonment

Plugging Back

Non-Routine Fracturing

Casing Repair

Water Shut off

Altering Casing

Conversion to Injection

Other -

13. Describe Proposed or Completed Operations

It is intended to add the Dakota formation to the previously approved San Juan 28-6 Unit #33B. The well name will be changed to the San Juan 28-6 Unit #116N. Attached is a new C-102 plat, operations plan, blowout preventer diagrams, and production facilities diagram.

14. I hereby certify that the foregoing is true and correct.

Signed *Reggie Cole* (DCMVIM) Title Regulatory Supervisor Date 12/12/01

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date 2/6/02

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II  
P.O. Drawer DD, Artesia, N.M. 88211-0719

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

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994

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

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-26296	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name Blanco Mesaverde/Basin Dakota
<sup>4</sup> Property Code 7462	<sup>5</sup> Property Name SAN JUAN 28-6 UNIT	
<sup>7</sup> GRID No. 14538	<sup>6</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	<sup>8</sup> Well Number 116N.  <sup>9</sup> Elevation 6465'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	33	28-N	6-W		2195	NORTH	530	WEST	RIO ARRIBA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres MV-W/325.59 DK-N/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<p><sup>16</sup> FD. U.S.G.L.O. BC. 1914</p> <p>S 89-58-18 E 2637.6' (M)</p> <p>2195'</p> <p>530'</p> <p>LAT. = 36° 37.2' N. LONG. = 107° 28.8' W.</p>	<p>FD. U.S.G.L.O. BC. 1914</p> <p>S 89-56-47 E</p>	<p>FD. U.S.G.L.O. BC. 1914</p>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Peggy Cole</i></p> <p>Signature Peggy Cole Printed Name Regulatory Administrator Title 12-12-01 Date</p>	
			<p>SF-079049-B</p>	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>9-11-94 Date of Survey</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor: 8894 Certificate Number</p>
			<p>NMSF-079051</p>	<p>Reissued to add Dakota formation</p>

## OPERATIONS PLAN

**Well Name:** San Juan 28-6 Unit #116N  
2195' FNL, 530' FWL, Section 33, T-28-N, R-6-W  
Rio Arriba County, New Mexico  
Latitude 36° 37.2, Longitude 107° 28.8  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6465' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2392'	
Ojo Alamo	2392'	2602'	aquifer
Kirtland	2602'	2832'	
Fruitland	2832'	3252'	gas
Pictured Cliffs	3252'	3352'	gas
Lewis	3352'	3802'	gas
<b>Intermediate TD</b>	<b>3452'</b>		
Huerfanito Bentonite	3802'	4167'	gas
Chacra	4167'	4872'	gas
Cliff House	4872'	5002'	
Menefee	5002'	5402'	gas
Point Lookout	5402'	5907'	gas
Mancos	5907'	6637'	gas
Gallup	6637'	7375'	gas
Greenhorn	7375'	7437'	gas
Graneros	7437'	7475'	gas
Dakota	7475'		gas
<b>TD</b>	<b>7723'</b>		

### Logging Program:

Mud logs - none  
Open hole - none  
Cased hole - CBL-CCL-GR - TD to surface  
Cores - none

### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3452'	LSND	8.4-9.0	30-60	no control
3452- 7723'	Air/N2	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):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3452'	7"	20.0#	J-55
6 1/4"	3352' - 7723'	4 1/2"	10.5#	K-55

### Tubing Program:

0' - 7723'      2 3/8"      4.7#      J-55

### BOP Specifications, Wellhead and Tests:

#### Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #2).

**Completion Operations -**

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). 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 3000 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 drilling crew.
- All BOP tests and 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 - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. 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 w/358 sx 50/50 Class "G" TXI Liteweight cement with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite and 0.5 pps Celloflake. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake (1037 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 2732'. First stage: cement with w/169 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 318 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (1037 cu.ft., 100% 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 at 2602'. Two turbolating centralizers at the base of the Ojo Alamo at 2602'. 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. Lead with 436 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps Celloflake, 5 pps Gilsonite (628 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- 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 (Gas/Mist Drilling):**

The following equipment will be operational while gas/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.
- Deduster equipment will be utilized.
- 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 Mesaverde 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.
- The west half of Section 33 is dedicated to the Mesaverde and the north half of Section 33 is dedicated to the Dakota in this well.
- This gas is dedicated.

Brennan D. Short  
Drilling Engineer

12/14/01  
Date

## Alternative Intermediate Lead Slurry

### Dowell-

Class G: D49(50:50) w/ 2.5% D79, 2% S1, 10pps D24, .5pps D29, .2%D46

where: D49-TXI Light weight Cement  
D79-Sodium Metasilicate  
S1-Calcium Chloride  
D24-Gilsonite  
D46-Antifoam Agent

### Properties-

Density: 11.4 lb/gal

Yield: 2.58 cu ft./sk

Water: 14.55 gal/sk

Thick Time 70 b.c.(deg F): 4:06(101)

Free Water: 0

Fluid Loss: 462ml/30 min

CS(crush)@24hr: 394

CS(crush)@48hr: 550

### Halliburton-

~~Class H 47#/sk, 37#/sk Blended Silicalite, 3% Bentonite, 4% Calcium Chloride~~

### Properties-

Density: 11.4 lb/gal

Yield: 2.42 cu.ft./sk

Water: 14.02 gal/sk

Thick Time(70 bc): 11:00+

Fluid Loss: 702 cc/30min

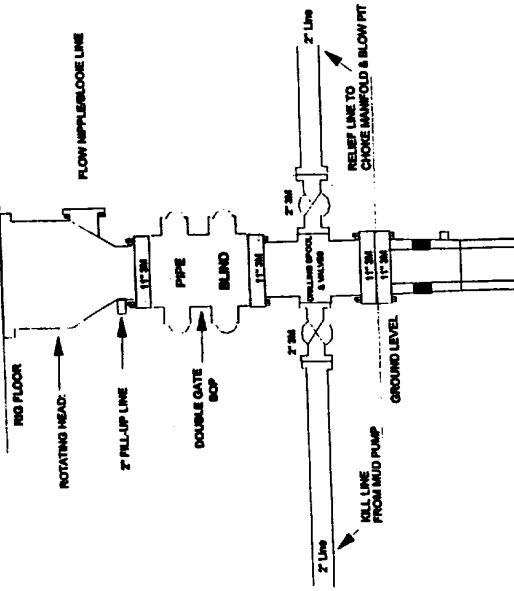
Free Water: 0%

Compressive Strength (@25:19) :500

Compressive Strength (@48:00) :630

Burlington Resources

Drilling Rig  
3000 psi System

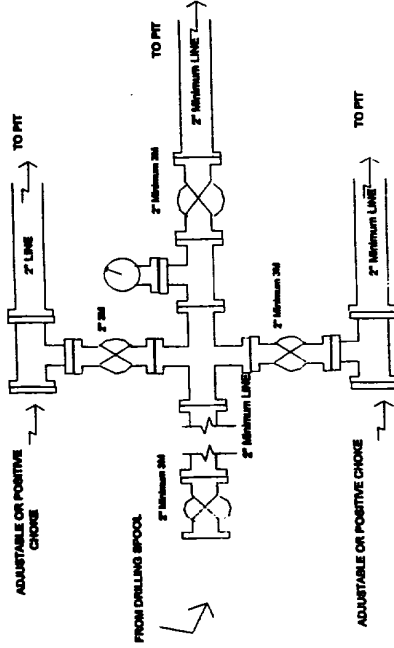


BOP installation from Surface Casing Point to Total Depth. 1 1/2" Bore 10" Nominal, 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating ram preventer. All BOP equipment is 3,000 psi working pressure

Figure #1

BURLINGTON RESOURCES

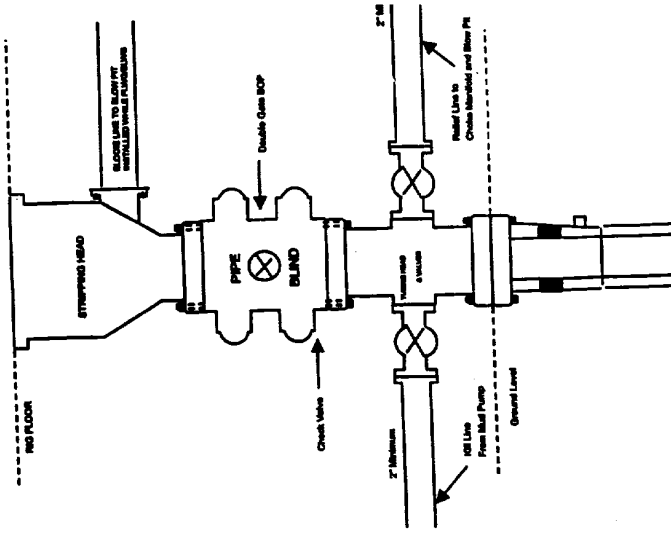
Drilling Rig  
Choke Manifold Configuration  
3000 psi System



Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

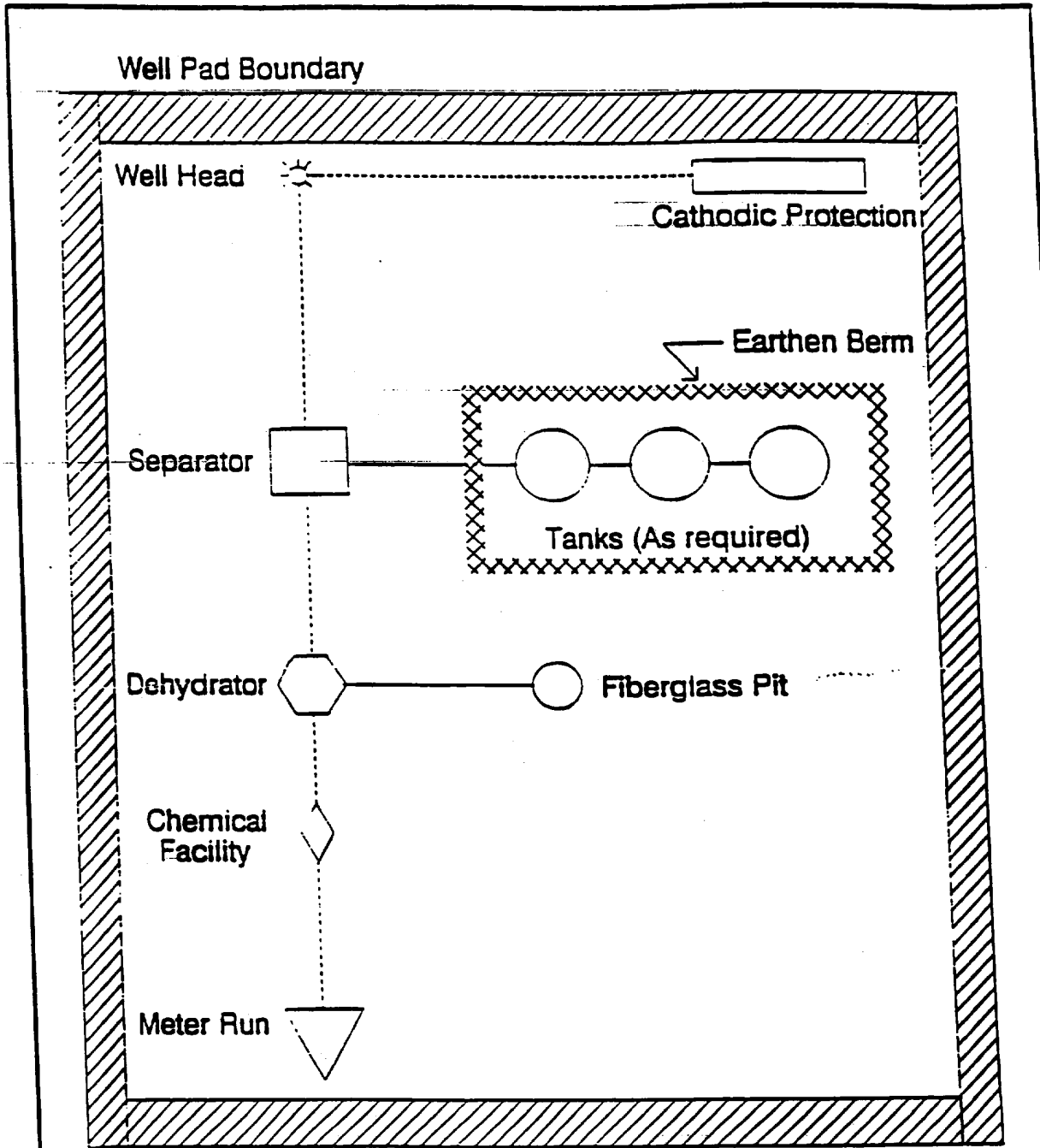
Figure #2

Completion/Workover Rig  
BOP Configuration  
3,000 psi System



Minimum BOP installation for all Completions/Workover Operations. 7-1/16" bore, 3000 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 3000 psi working pressure or greater excluding 500 psi stripping head.

Figure #3



PLAT #1

ANTICIPATED  
 PRODUCTION FACILITIES  
 FOR A  
 DAKOTA WELL