

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

1265' FSL, 2270' FEL, Sec.29, T-28-N, R-6-W, NMPM

5. Lease Number  
NMSF-079050

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
San Juan 28-6 Unit  
San Juan 28-6 U #147N

9. API Well No.  
30-039-26256

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 subject well. The well name will be changed from the San Juan 28-6 Unit #7B. Attached is a new C-102 plat, operations plan, 3000 psi blow out preventer diagram and facilities diagram.

Please extend the existing Application for Permit to Drill, Deepen or Plug Back.

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

Signed *Deanna Cole* Title Regulatory Supervisor Date 1/16/02  
no

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date 1/28/02  
CONDITION OF APPROVAL, if any:

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994

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

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

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

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-26256	<sup>2</sup> Pool Code 7239/71599	<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> OGRID No. 14538	<sup>6</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	<sup>8</sup> Well Number 147N
		<sup>9</sup> Elevation 6247'

<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
0	29	28-N	6-W		1265	SOUTH	2270	EAST	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  
M-E/320  
DK-E/320

<sup>13</sup> Joint or Infill

<sup>14</sup> Consolidation Code

<sup>15</sup> Order No.

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>16</p> <p>Reissued to show well number change from #7B</p>	<p>29</p>	<p>NMSF-079050</p>	<p>1265'</p>	<p>2270'</p>	<p>WEST</p>	<p>17 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</p> <p>Peggy Cole</p> <p>Printed Name</p> <p>Regulatory Supervisor</p> <p>Title</p> <p>1-16-02</p> <p>Date</p>
						<p>18 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 knowledge and belief</p> <p>10-1-98</p> <p>Date of Survey</p> <p><i>[Signature]</i></p> <p>Signature and Seal of Professional Surveyor</p> <p>8894</p> <p>Certificate Number</p>
						<p>FD. U.S.G.L.O. BC. 1914</p> <p>N 00-05-22 E 2636.3' (M)</p> <p>LAT. = 36° 37.7' N. LONG. = 107° 29.4' W.</p>
						<p>FD. U.S.G.L.O. BC. 1914</p>

OPERATIONS PLAN

**Well Name:** San Juan 28-6 Unit #147N  
1265' FSL, 2270' FEL, Section 29, T-28-N, R-6-W  
Rio Arriba County, New Mexico  
Latitude 36° 37.7, Longitude 107° 29.4  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6247' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2203'	
Ojo Alamo	2203'	2334'	aquifer
Kirtland	2334'	2595'	gas
Fruitland	2595'	2999'	
Pictured Cliffs	2999'	3136'	gas
Lewis	3136'	3599'	gas
<b>Intermediate TD</b>	<b>3236'</b>		
Huerfanito Bentonite	3599'	3959'	gas
Chacra	3959'	4659'	gas
Cliff House	4659'	4749'	
Menefee	4749'	5174'	gas
Point Lookout	5174'	5689'	gas
Mancos	5689'	6409'	gas
Gallup	6409'	7148'	gas
Greenhorn	7148'	7209'	gas
Graneros	7209'	7246'	gas
Dakota	7246'		gas
TD	<b>7485'</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- 3236'	LSND	8.4-9.0	30-60	no control
3236- 7485'	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' - 3236'	7"	20.0#	J-55
6 1/4"	3136' - 7485'	4 1/2"	10.5#	K-55

**Tubing Program:**

0' - 7485'

**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/332 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 (972 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 2495'. First stage: cement with w/174 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 291 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (972 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 2005'. Two turbolating centralizers at the base of the Ojo Alamo at 2005'. 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 434 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps Celloflake, 5 pps Gilsonite (625 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 east half of Section 29 is dedicated to the Mesaverde and the Dakota in this well.
- This gas is dedicated.

Bennett D. Shurt  
Drilling Engineer

1/17/2002  
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**

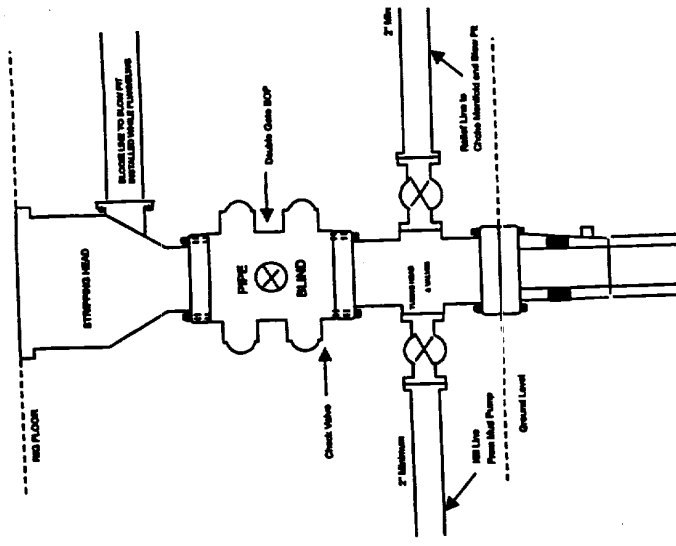
**Free Water: 0%**

**Compressive Strength (@25:19) :500**

**Compressive Strength (@48:00) :630**

**BURLINGTON RESOURCES**

**Completion/Workover Rig  
BOP Configuration  
3,000 psi System**



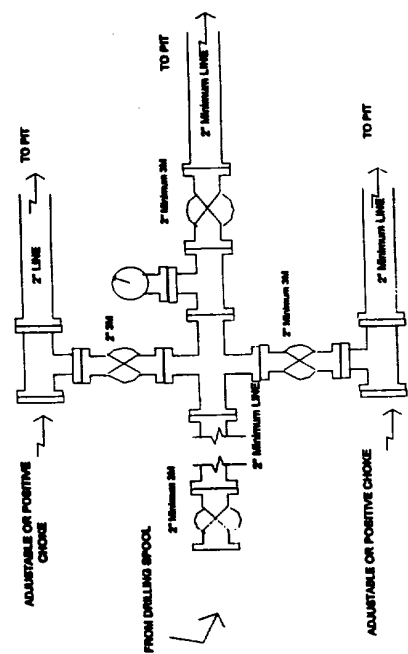
Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 3000 psi working pressure or greater excluding 500 psi stripping head.

Figure #3

4-20-01

**BURLINGTON RESOURCES**

**Drilling Rig  
Choke Manifold Configuration  
3000 psi System**



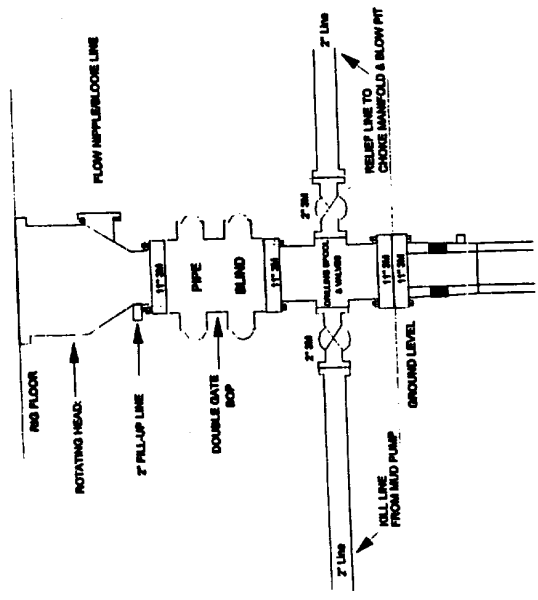
Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

4-20-01

**Burlington Resources**

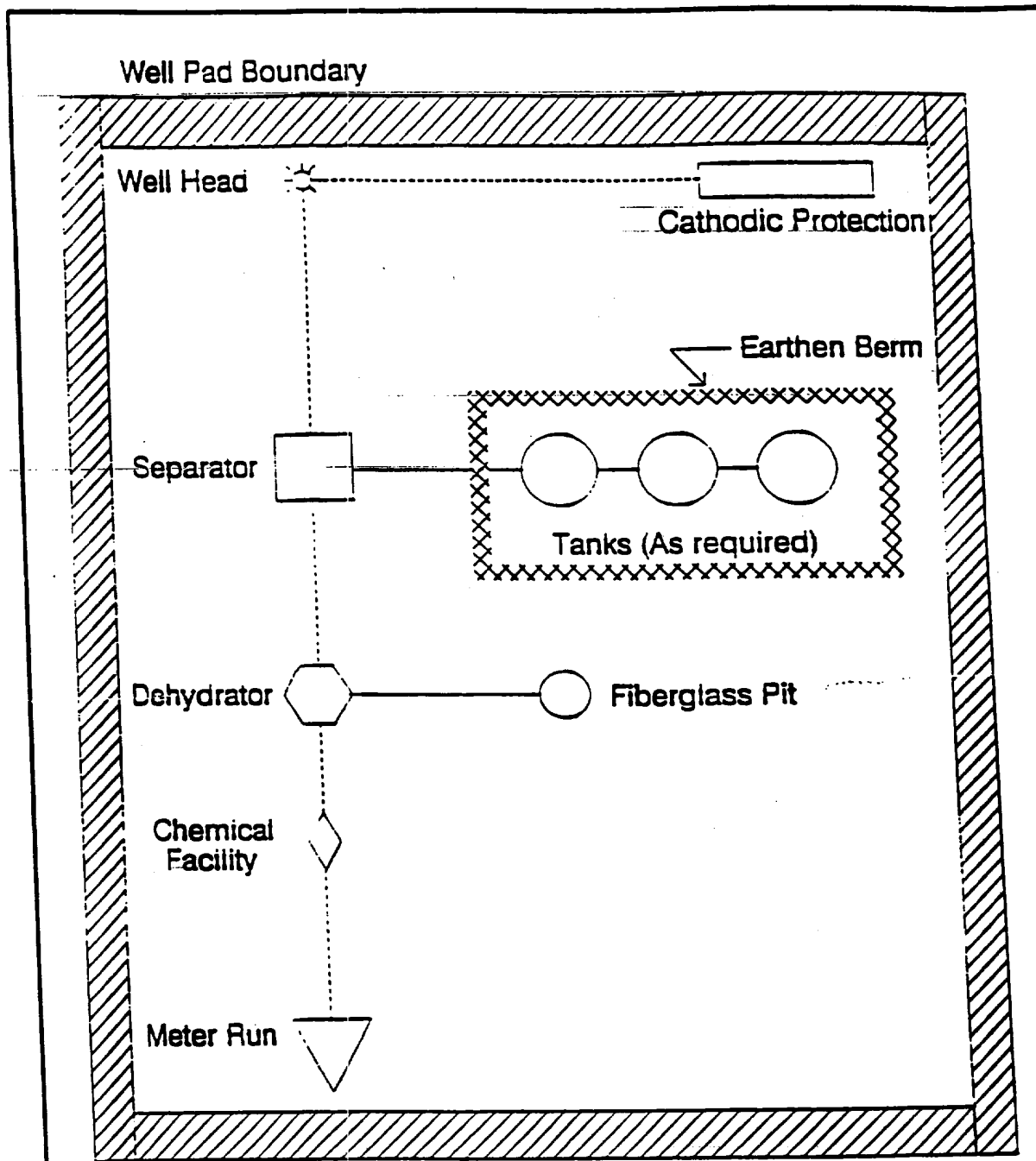
**Drilling Rig  
3000 psi System**



BOP installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating head on top of ram preventer. All BOP equipment is 3,000 psi working pressure.

Figure #1

4-20-01



PLAT #1

ANTICIPATED  
 PRODUCTION FACILITIES  
 FOR A  
 DAKOTA WELL



The subject APD for the attached well has been approved. You are required to obtain a Nonstandard Location approval (NSL) from the NMOCD for one or more zones to be completed in this well. You may drill the well and complete it in the approved zones but must obtain an NSL prior to placing the well on production (for the zone that doesn't meet NMOCD's location criteria).