

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-06738 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Sanchez 9. Well Number #3B
4. Location of Well 1795' FSL, 805' FEL Latitude 36° 46.0, Longitude 107° 52.0	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 34, T-30-N, R-10-W API # 30-045-30406
14. Distance in Miles from Nearest Town 10.6 miles to Aztec P.O.	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 805'	17. Acres Assigned to Well 316.84
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 844'	
19. Proposed Depth 5209'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6021' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	OPERATING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Supervisor	Date <u>10-9-00</u>

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ Jim Lovato TITLE \_\_\_\_\_ DATE DEC 4

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.

NMOC

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

1795' FSL, 805' FEL, Sec. 34, T-30-N, R-10-W, NMPM

5. Lease Number  
NM-06738

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

Well Name & Number

Sanchez #3B

API Well No.

30-045- 30400

10. Field and Pool

Blanco Mesaverde

11. County and State

San Juan Co, NM

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

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to alter the casing depths and cement of the subject well.

Revisions:

Mud Program:

Interval	Type	Weight	Fluid Loss
0-120'	Spud	8.4-9.0	No control
120-2898'	LSND	8.4-9.0	No control
2898-5209'	Air/Mist	n/a	n/a

Casing Program:

Hole Size	Depth Interval	Casing Size	Weight	Grade
12 1/4"	0-120'	9 5/8"	32.3#	H-40
8 3/4"	0-2898'	7"	20.0#	J-55
6 1/4"	2798-5209'	4 1/2"	10.5#	J-55

Cementing Program:

9 5/8" surface casing - 96 sx Class "B" cement with 0.25 pps Flocele and 3% calcium chloride (113 cu.ft. of slurry, 200% excess to circulate to surface).

7" intermediate casing - lead w/293 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele (872 cu.ft. of slurry, 100% excess to circulate to surface).

7" intermediate casing alternative two stage: Stage collar at 1861'. First stage: cement w/244 sx 50/50 Class "G" poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele. Second stage: w/277 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (872 cu.ft. of slurry, 100% excess to circulate to surface).

4 1/2" production liner - cement with 241 sx Class "G" 50/50 poz w/4.5% gel, 0.25 pps Flocele, 5 pps Gilsonite, 0.25% fluid loss, 0.1% retardant (347 cu.ft., 50% excess to circulate liner).

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

Signed Peggy Cole Title Regulatory Supervisor Date 11/8/00

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lovato

Title \_\_\_\_\_

Date

DEC 4

CONDITION OF APPROVAL, if any:

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 representations as to any matter within its jurisdiction.

NMOCD

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 30-045- <u>30406</u>	<sup>2</sup> Pool Code 72319 -	<sup>3</sup> Pool Name Blanco Mesaverde -
<sup>4</sup> Property Code 7475	<sup>5</sup> Property Name SANCHEZ	<sup>6</sup> Well Number #3B
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS INC.	<sup>9</sup> Elevation 6021'

<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
1	34	30-N	10-W		1795	SOUTH	805	EAST	SAN JUAN

<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 S/316.84		<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

<div><sup>16</sup></div>						<div><sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief   Signature Peggy Cole Printed Name Regulatory Supervisor Title 10-9-00 Date</div>
<div><sup>18</sup></div>						<div><sup>18</sup> SURVEYOR CERTIFICATION 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.  8-24-00 Date of Survey  Signature and Seal of Professional Surveyor 8894 Certificate Number</div>

## OPERATIONS PLAN

Well Name: Sanchez #3B  
Surface Location: 1795' FSL, 805' FEL, Section 34, T-30-N, R-10-W  
San Juan County, New Mexico  
Latitude 36° 46.0, Longitude 107° 52.0

Formation: Blanco Mesa Verde  
Elevation: 6021' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1245'	aquifer
Ojo Alamo	1245'	1409'	aquifer
Kirtland	1409'	1961'	gas
Fruitland	1961'	2493'	gas
Pictured Cliffs	2493'	2648'	gas
Lewis	2648'	3233'	gas
Intermediate TD	2748'		
Mesa Verde	3233'	3498'	gas
Chacra	3498'	4170'	gas
Massive Cliff House	4170'	4248'	gas
Menefee	4248'	4809'	gas
Point Lookout	4809'		gas
Total Depth	5209'		

### Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD  
Open hole logging - Array Induction, Temp, Neutron-Density from TD to Intermediate csg.  
Mud Logs/Coring/DST - none

### Mud Program:

<u>Interval- MD</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 2748'	LSND	8.4-9.0	30-60	no control
2748- 5209'	Air/Mist	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>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2748'	7"	20.0#	J-55
6 1/4"	2648' - 5209'	4 1/2"	10.5#	J-55

Tubing Program: 0' -5209' 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.

BOP Specifications, Wellhead and Tests (cont'd):**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 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 - cement with 96 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (113 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/246 sx Class "B" w/3% sodium metasilicate, 5# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx and 0.5# flocele/sx (827 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 to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 1861'. First stage: cement with 212 sx Class "B" cmt with 5 pps gilsonite, 1/2 pps cellophane, 3% sodium metasilicate. Second stage: 193 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 5 pps Gilsonite (827 cu.ft., 100% excess to circulate to surface).