

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 SF-080672 Unit Reporting Number 891001054A
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name San Juan 27-4 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87401 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 32A
4. Location of Well 960' FSL, 1640' FWL Latitude 36° 33.3, Longitude 107° 13.4	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T-27-N, R-4-W API # 30-039-26378
14. Distance in Miles from Nearest Town 22 miles from Gobernador	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 960'	17. Acres Assigned to Well 320 W/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drilg, Compl, or Applied for on this Lease 75'	
19. Proposed Depth 6597'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7189' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Peggy Cale</u> Regulatory/Compliance Administrator	<u>2-8-00</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE MAY 24 2000  
APPROVED BY /s/ Jim Lovato TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

*dk*  
*18* *AP*

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-039-26378	'Pool Code 72319	'Pool Name Blanco Mesaverde
'Property Code 7452	'Property Name SAN JUAN 27-4 UNIT	'Well Number 32A
'OGRID No. 14538	'Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	'Elevation 7189'

<sup>10</sup> Surface Location

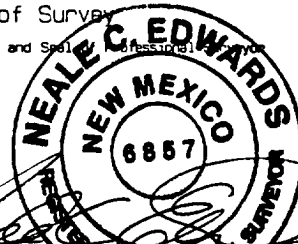
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	23	27N	4W		960	SOUTH	1640	WEST	RIO ARRIBA

<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
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<sup>12</sup> Dedicated Acres W/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

15	5278.02'	17 OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
18		
5280.00'	NMSF-080672	Signature <u>Peggy Cole</u> Printed Name <u>Peggy Cole</u> Title <u>Regulatory Administrator</u>
5280.00'	23	Date <u>2-8-00</u>
		19 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.
1640'	960'	DECEMBER 9, 1999
5269.44'		Date of Survey Signature and Seal of Professional Surveyor  Certificate Number <u>6857</u>

## OPERATIONS PLAN

**Well Name:** San Juan 27-4 Unit #32A  
**Surface Location:** 960' FSL, 1640' FWL, Section 23, T-27-N, R-4-W  
Rio Arriba County, New Mexico  
Latitude 36° 33.3, Longitude 107° 13.4  
**Formation:** Blanco Mesa Verde  
**Elevation:** 7189' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3478'	aquifer
Ojo Alamo	3478'	3581'	aquifer
Kirtland	3581'	3708'	gas
Fruitland	3708'	4036'	gas
Pictured Cliffs	4036'	4128'	gas
Lewis	4128'	537'	gas
<b>Intermediate TD</b>	<b>4228'</b>		
Mesa Verde	4537'	5017'	gas
Chacra	5017'	5761'	gas
Massive Cliff House	5761'	5893'	gas
Menefee	5893'	6197'	gas
Point Lookout	6197'		gas
<b>Total Depth</b>	<b>6597'</b>		

### Logging Program:

Cased hole Gamma Ray, Cement bond - surface to TD  
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- 300'	Spud	8.4-9.0	40-50	no control
300- 4228'	LSND	8.4-9.0	30-60	no control
4228- 6597'	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' - 300' ✓	9 5/8"	32.3#	H-40
8 3/4"	0' - 4228' ✓	7"	20.0#	J-55
6 1/4"	4128' - 6597' ✓	4 1/2"	10.5#	J-55

**Tubing Program:** 0' - 6597' 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 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 239 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (282 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/384 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/6% gel, 2% calcium chloride, 5# gilsonite/sx and 0.25# flocele/sx (1271 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 3608'. First stage: cement with 108 sx Class "B" 50/50 poz w/6% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Cellophane. Second stage: 375 sx Class "B" with 3% sodium metasilicate, 1/4 pps Cellophane, 5 pps Gilsonite (1271 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 3581'. Two turbolating centralizers at the base of the Ojo Alamo at 3581'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 27-4 UNIT #32A

960' FSL & 1640' FWL, SECTION 23, T27N, R4W, N.M.P.M.  
RIO ARRIBA COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
SE/SW SECTION 23, T27N, R4W

