

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 FEB 23 PM 4:10

1a. Type of Work  
DRILL

1b. Type of Well  
GAS

2. Operator  
**BURLINGTON**  
RESOURCES Oil & Gas Company P

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 88499  
(505) 326-9700

4. Location of Well  
Unit C (NENW), 468' FNL & 2059' FWL,  
  
Latitude 36° 33'.082464"  
Longitude 107° 17' 34.75081"

5. Lease Number  
NMBF-080670  
Unit Reporting Number  
NMNM-7840813-DK NMNM-7840814-MV

6. If Indian, All. or Tribe

7. Unit Agreement Name  
San Juan 27-4 Unit

8. Farm or Lease Name

9. Well Number  
49N

10. Field, Pool, Wildcat  
Basin DK / Blanco MV

11. Sec., Twn, Rge, Mer. (NMPM)  
C Sec. 30, 27N, R04W  
API # 30-039-30201

12. County  
Rio Arriba

13. State  
NM

14. Distance in Miles from Nearest Town

15. Distance from Proposed Location to Nearest Property or Lease Line  
468'

16. Acres in Lease

17. Acres Assigned to Well  
DK & MV 321.56 acres W/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease

19. Proposed Depth  
7947'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR. Etc.)  
6678'

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: Patsy Clugst  
Sr. Regulatory Specialist Date 2/20/07

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE ARM

DATE 5/7/07

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.

EXAMPLE 3 - SEE MASTER PLAN

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

B 5/10

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

1301 W. Grand Avenue, Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Fee Lease - 3 Copies  
State Lease - 7 Copies  
Submit to Appropriate District Office  
Revised June 10, 2003  
Form C-102

2007 FEB 21 11 3 36  
RECEIVED  
070 FARMINGTON NM  
AMMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-039- <b>30201</b>	<sup>2</sup> Pool Code 71599 / .72319	<sup>3</sup> Pool Name BASIN DAKOTA / <b>Blanco Mesaverde</b>
<sup>4</sup> Property Code <b>7452</b>	<sup>5</sup> Property Name SAN JUAN 27-4 UNIT	
<sup>7</sup> OGRID No. <b>14538</b>	<sup>8</sup> Operator Name BURLINGTON OIL AND GAS COMPANY LP	
		<sup>6</sup> Well Number 49N
		<sup>9</sup> Elevation 6677.9'

<sup>10</sup> SURFACE LOCATION

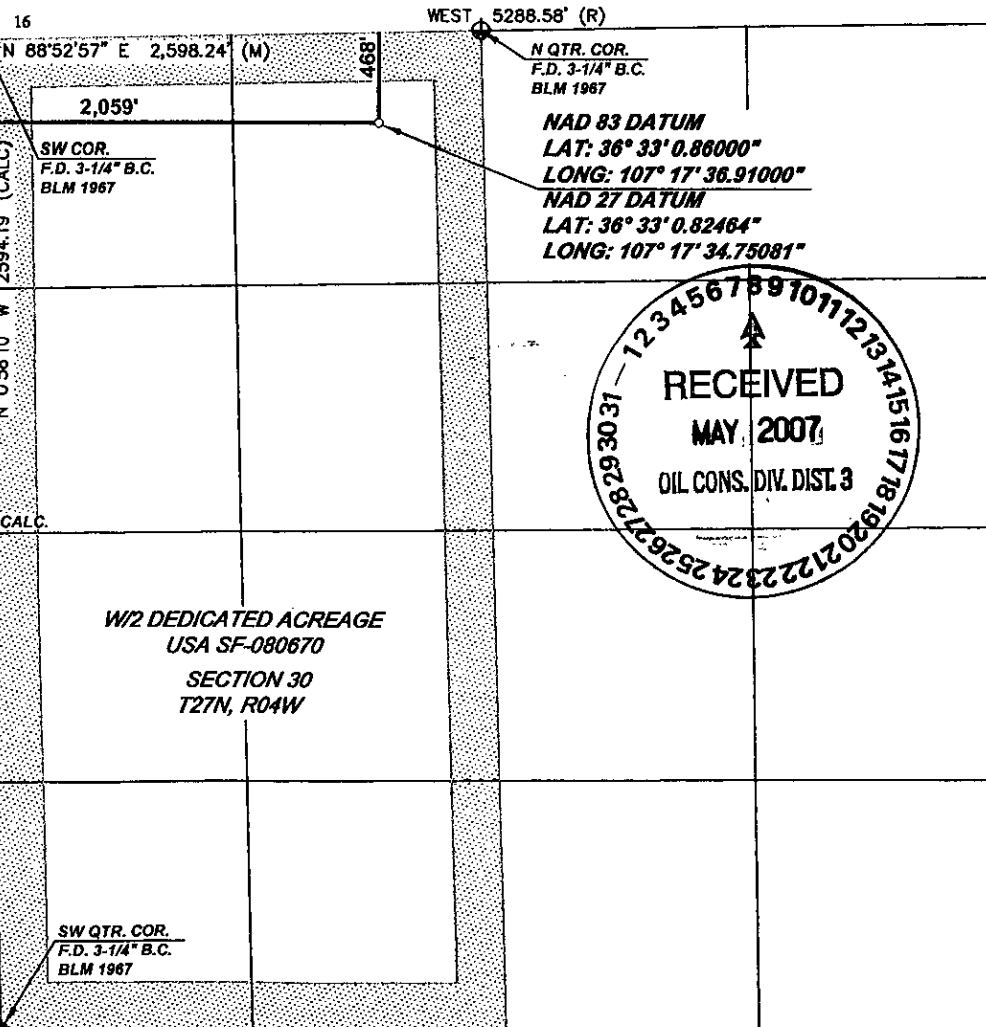
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	27-N	04-W		468	NORTH	2059	WEST	RIO ARRIBA

<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
C									

<sup>12</sup> Dedicated Acres 321.560 MV/DK W/2	<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

<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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Patsy Clugston*  
Signature

Patsy Clugston

Printed Name

Sr. Regulatory Specialist

Title and E-mail Address

2-21-07

Date

<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.

Date of Survey: 05/31/06

Signature and Seal of Professional Surveyor:

*Henry P. Broadhurst*  
REGISTERED PROFESSIONAL SURVEYOR  
11393  
6/6/06

Certificate Number: NM 11393

## State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039-

30201

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

SF-080670

7. Lease Name or Unit Agreement Name

San Juan 27-4 Unit

8. Well Number

49N

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco Mesaverde / Basin Dakota

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter C : 468' feet from the North line and 2059' feet from the West line  
Section 30 Township 27N Rng 4W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6677.9'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

120'

Distance from nearest fresh water well

&lt;100'

Distance from nearest surface water

&gt;200'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐CHANGE PLANS ☐PULL OR ALTER CASING ☐MULTIPLE COMPL ☐

OTHER:

New Drill Pit ☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐P AND A ☐CASING/CEMENT JOB ☐OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Sr. Regulatory Specialist

DATE

2/20/2007

Type or print name

Patsy Clugston

E-mail address:

pclugston@br-inc.com

Telephone No.

505-326-9700

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL &amp; GAS INSPECTOR, DIST. 42

DATE

5/10/07

Conditions of Approval (if any):

1. Viable acc, pits to be closed accordingly

B

**SAN JUAN 27-4 UNIT 49N**

**468' FNL, 2,059' FWL**

SECTION 30, T27N, R04W, N.M.P.M.,

**RIO ARRIBA, NEW MEXICO**

GROUND ELEV.: 6,677.9' NADV88 DATE: MAY 31, 2006



1300 W. BROADWAY  
BLOOMFIELD, NM, 87413  
PHONE: (505) 632-7777

### PIT CROSS SECTION

NAD 83 LAT.: 36° 33' 0.86000" N LONG.: 107° 17' 36.91000" W

**330' x 400' = 3.03 ACRES**

1. RESERVE PIT DIKE; TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).

**NOTES:**

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 49N

Lease:		AFE #: WAN.ZA2.7184/7185MV		AFE \$:	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XX 2008 27N (3)		State: NM	County: RIO ARRIBA
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer: Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 832-486-2275		Proj. Field Lead: Phone:	
<b>Primary Objective (Zones):</b>					
<b>Zone</b>	<b>Zone Name</b>				
R20002	MESAVERDE(R20002)				
R20076	DAKOTA(R20076)				

<b>Location: Surface</b>		<b>Datum Code: NAD 27</b>		<b>Straight Hole</b>	
Latitude: 36.550229	Longitude: -107.292986	X:	Y:	Section: 30	Range: 004W
Footage X: 2059 FWL	Footage Y: 468 FNL	Elevation: 6678	(FT)	Township: 027N	

Tolerance:			
Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:

Formation Data: Assume KB = 6690	Units = FT
----------------------------------	------------

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	6474	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. <i>Cir CNT to sur</i>
OJO ALAMO	2917	3773	<input type="checkbox"/>			Possible water flows.
KIRTLAND	3045	3645	<input type="checkbox"/>			
FRUITLAND	3160	3530	<input type="checkbox"/>			Possible gas.
PICTURED CLIFFS	3535	3155	<input type="checkbox"/>			
LEWIS	3607	3083	<input type="checkbox"/>			
Intermediate Casing	3707	2983	<input type="checkbox"/>			8-3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 825 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4032	2658	<input type="checkbox"/>			
CHACRA	4482	2208	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	5285	1405	<input type="checkbox"/>			
MENEFEE	5332	1358	<input type="checkbox"/>	750		Gas.
MASSIVE POINT LOOKOUT	5702	988	<input type="checkbox"/>			Gas.
MANCOS	6187	503	<input type="checkbox"/>			
UPPER GALLUP	6835	-145	<input type="checkbox"/>			Gas. Possibly wet.
GREENHORN	7629	-939	<input type="checkbox"/>	2000		Gas possible, highly fractured
GRANEROS	7690	-1000	<input type="checkbox"/>			
TWO WELLS	7712	-1022	<input type="checkbox"/>			Gas
UPPER CUBERO	7842	-1152	<input type="checkbox"/>			Gas
LOWER CUBERO	7878	-1188	<input type="checkbox"/>			Estimated Bottom Perf ~ 7927'
OAK CANYON	7932	-1242	<input type="checkbox"/>			
Total Depth	7947	-1257	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 10.50#/11.60#, J-55/N-80, STC/LTC Casing. Cement with 577 cuft. Circulated cement a minimum of 100' inside previous casing string. No open hole logs. Cased hole TDT with GR to surface.

<b>Reference Wells:</b>		
<b>Reference Type</b>	<b>Well Name</b>	<b>Comments</b>
Production	SJ 27-4 53	NE30-27N-04W

**PROJECT PROPOSAL - New Drill / Sidetrack**

SAN JUAN 27-4 UNIT 49N

**Logging Program:**Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple ComboTD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT**Additional Information:**

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------

Comments: Location/Tops/Logging - DK 027N04W30NW2 AND MV 027N04W30NW2

Zones - DK 027N04W30NW2 AND MV 027N04W30NW2

General/Work Description - NO LEWIS