

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 MAR 27 PM 3:33

1a. Type of Work DRILL	5. Lease Number USA SF-080670 Unit Reporting Number 210 FARM 1700 NM	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name	
4. Location of Well Surf: Unit J (NWSE), 1785' FSL & 1580' FEL  SURF: Latitude 36° 31.6638921 N Longitude 107° 16.2072170 W	9. Well Number #54G  10. Field, Pool, Wildcat Basin Dakota  11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 32, T27N, R4W  API # 30-039- 30234	
14. Distance in Miles from Nearest Town 50 mile/Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1580'	17. Acres Assigned to Well DK - 320 (E/2)	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease	
19. Proposed Depth 8224'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6967' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	3-27-07 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

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 wilfully 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 Master Plan Type 3

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

NMOCD

2/10

This action is subject to technical and  
procedural review pursuant to 43 CFR 3160.3  
and appeal pursuant to 43 CFR 3165.4

## 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

2007 MAR 27 PM 3:33 Form 6-102

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30234		<sup>2</sup> Pool Code 71599	<sup>3</sup> Pool Name BASIN DAKOTA
<sup>4</sup> Property Code 7452	<sup>5</sup> Property Name SAN JUAN 27-4		<sup>6</sup> Well Number 54G
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		<sup>9</sup> Elevation 6,966.8'

<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
J	32	27-N	4-W		1,785	SOUTH	1,580	EAST	RIO ARRIBA

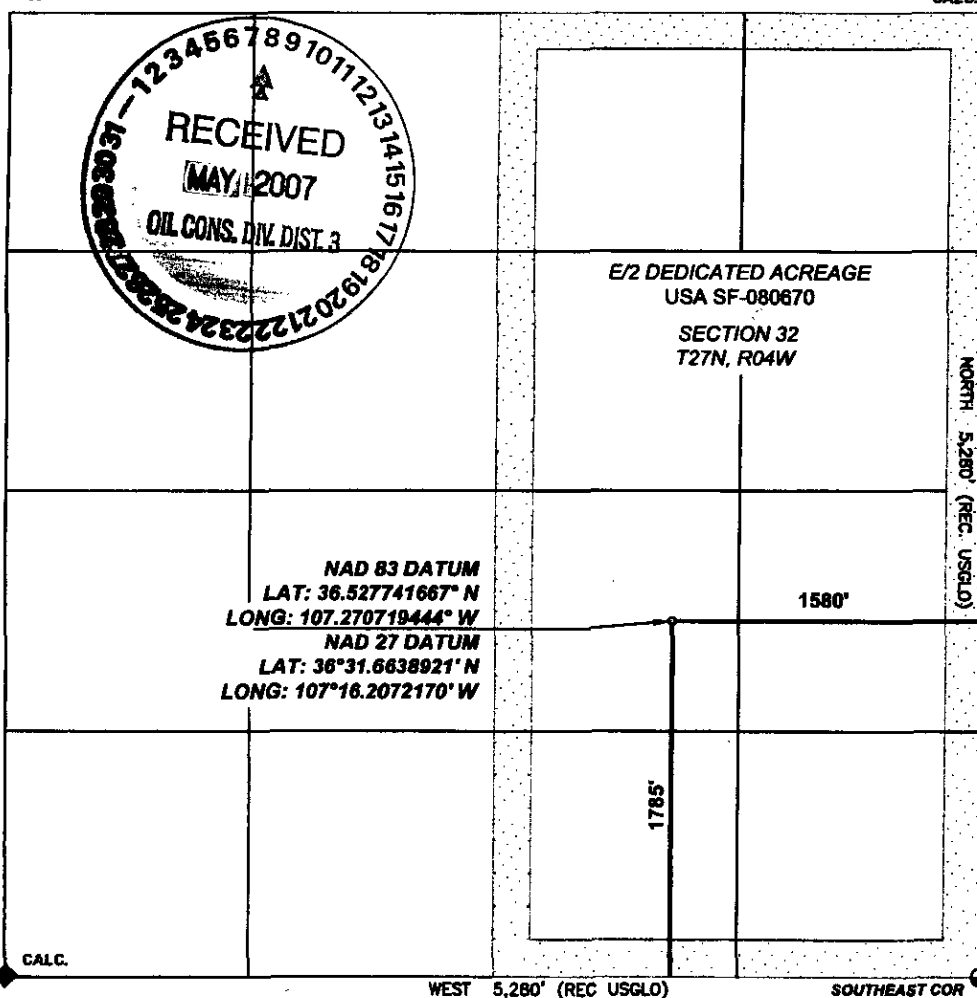
<sup>11</sup> Bottom Hole Location If Different From Surface

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 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

16



CALC.

<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.

*Kandis Roland*

Signature  
KANDIS ROLAND

Printed Name  
REGULATORY TECHNICIAN

Title and E-mail Address  
11/16/2006

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: 10/25/06  
Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

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

Energy, Minerals and Natural Resources

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.

Santa Fe, NM 87505

May 27, 2004

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. 30-039- <b>30234</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP		6. State Oil & Gas Lease No. Federal Lease #USA SF-080670
3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402		7. Lease Name or Unit Agreement Name San Juan 27-4 Unit
4. Well Location Unit Letter <u>J</u> : <u>1785'</u> feet from the <u>South</u> line and <u>1580'</u> feet from the <u>East</u> line Section <u>32</u> Township <u>27N</u> Rng <u>4W</u> NMPM County <u>Rio Arriba</u>		8. Well Number #54G
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6967'		9. OGRID Number 14538
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Basin Dakota
Pit type <u>New Drill</u> Depth to Groundwater <u>&gt;100</u> Distance from nearest fresh water well <u>&gt;1000</u> Distance from nearest surface water <u>&lt;1000</u> Pit Liner Thickness: <u>N/A</u> mil Below-Grade Tank: <u>Volume</u> 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 ☒

**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, Unlined:

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 and vent/flare pit will be an unlined 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 unlined, 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 Rhonda Rogers TITLE Regulatory Technician DATE 3/27/2007

Type or print name Rhonda Rogers E-mail address: ogerrs@conocophillips.com Telephone No. 505-599-4018

**For State Use Only**

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. # DATE 5/10/07

Conditions of Approval (if any):

8

**SAN JUAN 27-4 UNIT 54G**

**1,785' FSL, 1,580' FEL**

# NO NEW ACCESS



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

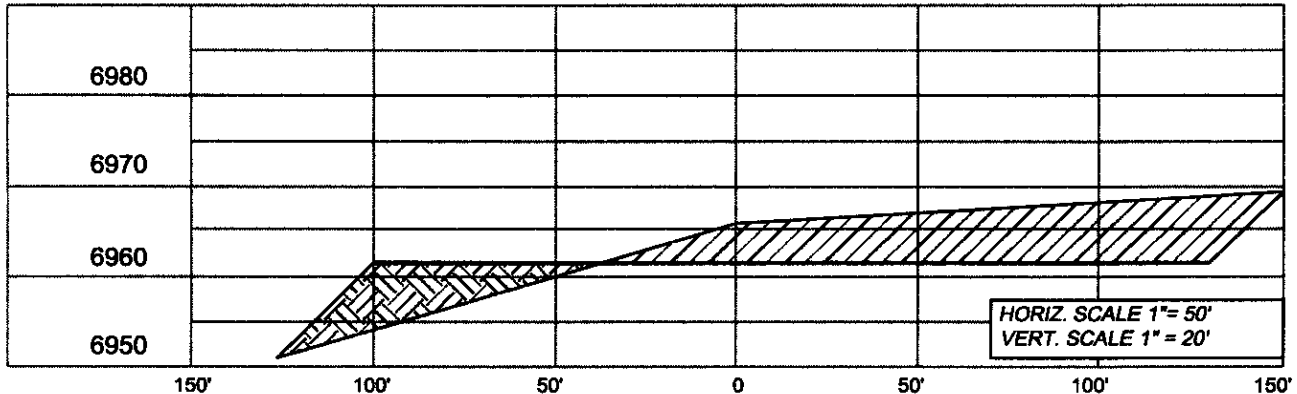
1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.  
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED  
PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT 54G  
 1785' FSL, 1580' FEL  
 SECTION 32, T27N, R04W, N.M.P.M.,  
 RIO ARriba COUNTY, NEW MEXICO  
 ELEV.: 6,966.8' NAVD88

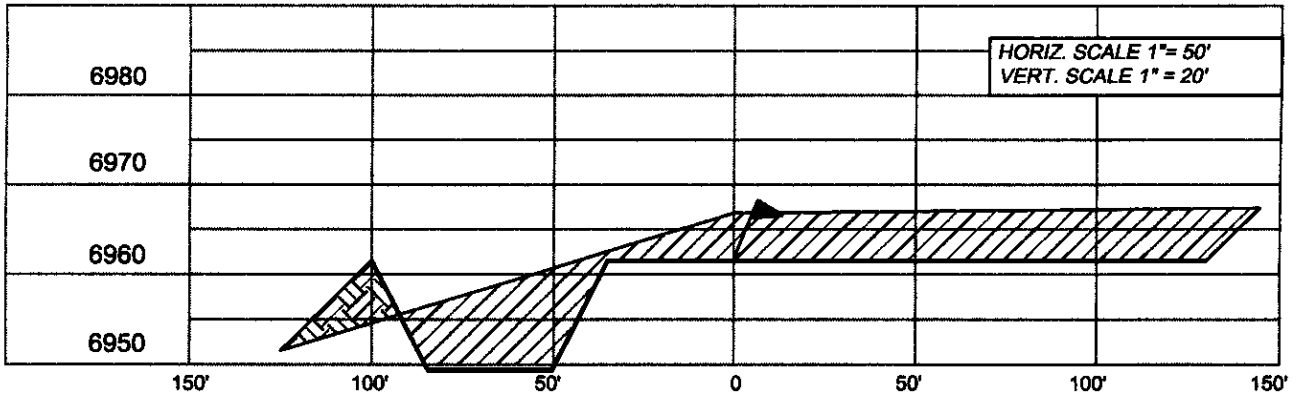
A - A'

C/L



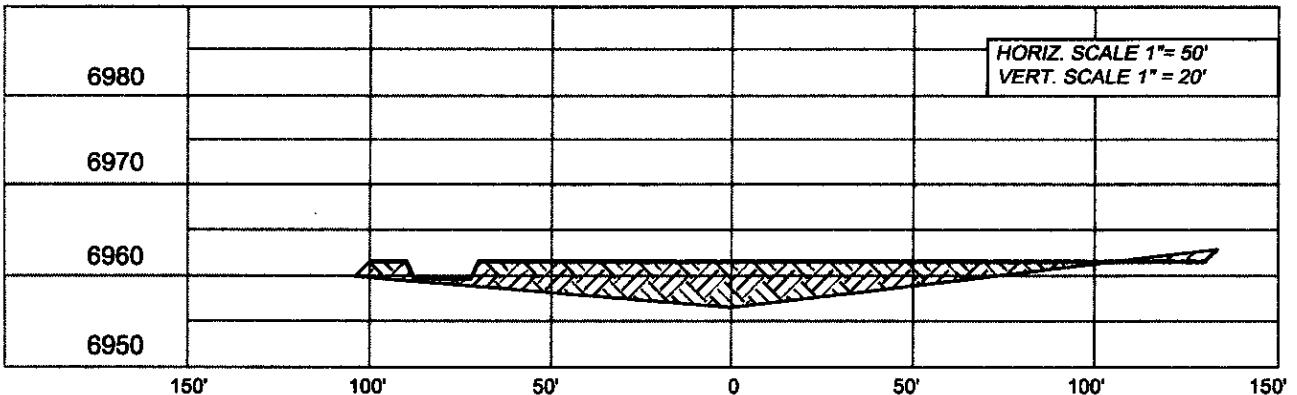
B - B'

C/L



C - C'

C/L



NOTE: CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS			
NO.	DESCRIPTION	REVISED BY	DATE

**CCI**  
 1300 W. BROADWAY  
 BLOOMFIELD, NM, 87413  
 PHONE: (505) 832-7777  
**CHENAULT CONSULTING INC.**

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 54G

DEVELOPMENT

Lease:		AFF #: WAN.ZA2.7197		AFF \$: 636,161.40	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: XX 2008 27N		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist: Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer: Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 832-486-2275		Proj. Field Lead: Phone:	

Primary Objective (Zones):	
Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.527732	Longitude: -107.270120	X:	Y:	Section: 32	Range: 004W
Footage X: 1580 FEL		Footage Y: 1785 FSL		Elevation: 6967 (FT)	Township: 027N
Tolerance:					

Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6981 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	216	6765	<input type="checkbox"/>			12-1/4" hole. 9-5/8" 32.3 ppf, H-40, STC casing. Cement with 171 cuft. Circulate cement to surface.
OJAM	3272	3709	<input type="checkbox"/>			Possible water flows.
KRLD	3404	3577	<input type="checkbox"/>			
FRLD	3448	3533	<input type="checkbox"/>			Possible gas.
PCCF	3774	3207	<input type="checkbox"/>			
LEWS	3921	3060	<input type="checkbox"/>			
Intermediate Casing	4021	2960	<input type="checkbox"/>			8-3/4" hole. 7", 20/23 ppf, J-55 STC/LTC casing. Cement with 905 cuft. Circulate cement to surface.
HURF	4039	2942	<input type="checkbox"/>			
CHRA	4723	2258	<input type="checkbox"/>			
UCLFH	5345	1636	<input type="checkbox"/>			
CLFH	5450	1531	<input type="checkbox"/>			Gas; possibly wet
MENF	5583	1398	<input type="checkbox"/>			Gas.
PTLK	5924	1057	<input type="checkbox"/>	800		Gas.
MNCS	6445	536	<input type="checkbox"/>			
GLLP	7092	-111	<input type="checkbox"/>			Gas. Possibly wet.
GRHN	7894	-913	<input type="checkbox"/>	1400		Gas possible, highly fractured
GRRS	7954	-973	<input type="checkbox"/>			
TWLS	7975	-994	<input type="checkbox"/>			Gas
CBBO	8112	-1131	<input type="checkbox"/>			Gas
CBRL	8149	-1168	<input type="checkbox"/>			
OKCN	8204	-1223	<input type="checkbox"/>			
ENCINAL	8224	-1243	<input type="checkbox"/>			
TD	8224	-1243	<input type="checkbox"/>			TD T/ENCN. 6-1/4" hole. 4-1/2", 10.5/11.6 ppf, J-55, STC/LTC casing. Cement with 572 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments

# PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 54G

DEVELOPMENT

Production	27-4 #108	SE 32-27N-4W
Production	27-4 #54M	NE SE 32-27N-4W
Production	27-4 #30M	NW 32-27N-4W

## Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR\_CBL

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - DK 27N04W32SE2

Zones - DK 27N04W32SE2