

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work <b>DRILL</b>	5. Lease Number <b>USA NM-03198</b> Unit Reporting Number	
1b. Type of Well <b>GAS</b>	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> <b>RESOURCES Oil &amp; Gas Company, LP</b>	7. Unit Agreement Name	
3. Address & Phone No. of Operator <b>PO Box 4289, Farmington, NM 87499</b> <b>(505) 326-9700</b>	8. Farm or Lease Name <b>Frost</b> 9. Well Number <b>#5018</b>	
4. Location of Well <b>Unit P (SESE), 1070' FSL &amp; 945' FSL</b>  <b>Latitude 36° 32.5127N</b> <b>Longitude 107° 50.4692 W</b>	10. Field, Pool, Wildcat <b>Basin FC/Fulcher Kutz PC</b>  11. Sec., Twn, Rge, Mer. (NMPM) <b>Sec. 25, T27N, R10W</b>  <b>API # 30-045-34341</b>	
14. Distance in Miles from Nearest Town <b>23 miles/Bloomfield</b>	12. County <b>San Juan</b>	13. State <b>NM</b>
15. Distance from Proposed Location to Nearest Property or Lease Line <b>945'</b>	17. Acres Assigned to Well <b>FTC 302.16 E/2 - PC 150.66 (SE/4)</b>	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease <b>52' from Frost 9</b>		
19. Proposed Depth <b>2488'</b>	20. Rotary or Cable Tools <b>Rotary</b>	
21. Elevations (DF, FT, GR, Etc.) <b>6508' GL</b>	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program <b>See Operations Plan attached</b>	<b>RCVD JUN11'07</b> <b>OIL CONS. DIV.</b> <b>DIST. 3</b>	
24. Authorized by: <u>Rhonda Rogers</u> <b>Rhonda Rogers (Regulatory Technician)</b>	<u>5-30-07</u> Date	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE AFM DATE 6/7/07

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 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 Master Plan Type 2

**NOTIFY AZTEC OCD 24 HRS.**  
**PRIOR TO CASING & CEMENT**

**NMOCD 06-12-07**

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

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

DISTRICT I:  
1635 N. French Dr., Hobbs, N.M. 88240

DISTRICT II:  
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III:  
1000 Rio Branco Rd., Aztec, N.M. 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

2007 MAY 31 PM Form C-102  
Revised October 12, 2006

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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34341		*Pool Code 71629/ 32357	*Pool Name Basin Fruitland Coal/ Fulcher Kutz Pictured Cliffs
*Property Code 7034	*Property Name FROST		*Well Number 5018
*OUID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 6506'

#### 10 Surface Location

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
P	25	27-N	10-W	(4)	1070'	SOUTH	945'	EAST	SAN JUAN

#### 11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot No.	Feet from the	North/South line	Feet from the	East/West line	County
*Dedicated Acres 302.16 FTC E/2 150.66 PC SE/4					*Joint or Infill		*Consolidation Code		*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>19</div>				<div>17 OPERATOR CERTIFICATION</div> <p>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 undivided 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 interest or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</p> <p><i>Juanita Farrell</i> Signature Juanita Farrell Printed Name</p>	
				<div>18 SURVEYOR CERTIFICATION</div> <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 belief.</p> <p>12-11-06 Date of Survey GLEN W. BUSSELL Signature GLEN W. BUSSELL Printed Name GLEN W. BUSSELL 15703 Certificate Number</p>	
				<div>15703</div>	
				<div>15703</div>	

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Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

May 27, 2004

<p><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.)</p>		<p>WELL API NO. 30-045-34341</p>
<p>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/></p>		<p>5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/></p>
<p>2. Name of Operator BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP</p>		<p>6. State Oil &amp; Gas Lease No. Federal Lease # USA NM 03198</p>
<p>3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402</p>		<p>7. Lease Name or Unit Agreement Name Frost</p>
<p>4. Well Location Unit Letter P : 1070' feet from the South line and 945' feet from the East line Section 25 Township 27N Rng 10W NMPM County San Juan</p>		<p>8. Well Number #501S</p>
<p>11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6508'</p>		<p>9. OGRID Number 14538</p>
<p>10. Pool name or Wildcat Basin FC/Fulcher Kutz PC</p>		
<p>Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/></p>		
<p>Pit type New Drill Depth to Groundwater &gt;100 Distance from nearest fresh water well &gt;1000 Distance from nearest surface water 5200 Pit Liner Thickness: N/A mil Below-Grade Tank: Volume bbls; Construction Material 1000</p>		

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, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit, vent/flare pit and pre-set mud pit will be unlined pits 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 5-30-07

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, District #3 DATE JUN 1 2 2007

Conditions of Approval (if any):

**FROST 5015, 1070' FSL & 945' FEL**

GROUND ELEVATION: 6508', DATE: NOVEMBER 21, 2006



LATITUDE: 36.325127 N LONGITUDE: 107.504692 W NAD27

**NOTE: VECTOR SURVEYS 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 AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.**

FROST 501S, 1070' FSL & 945' FEL  
SECTION 25, T-27-N, R-10-W, NMPM, SAN JUAN COUNTY, NM  
GROUND ELEVATION: 6508', DATE: NOVEMBER 21, 2006

2

6525							
6515							
6505							
6495							

5

6525							
6515							
6505							
6495							

21

6525							
6515							
6505							
6495							

**NOTE: VECTOR SURVEYS 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 AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.**

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FROST 501S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7018		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer: Schlabaugh, Jim L		Phone: 505-326-9788		Proj. Field Lead:	
				Phone:	

## Primary Objective (Zones):

Zone	Zone Name
2040	PICTURED CLIFFS
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.541878	Longitude: -107.841153	X:	Y:	Section: 25	Range: 010W
Footage X: 945 FEL	Footage Y: 1070 FSL	Elevation: 6508	(FT)	Township: 027N	
Tolerance:					

Location Type: Summer Only		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6520		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	120	6400	<input type="checkbox"/>			8-3/4" hole. 7" 20 ppf J-55 STC casing. Cement with 50 cuft. Circulate cement to surface.	
OJO ALAMO	1327	5193	<input type="checkbox"/>			Possible water	
KIRTLAND	1506	5014	<input type="checkbox"/>				
FRUITLAND	2065	4455	<input type="checkbox"/>			Gas	
PICTURED CLIFFS	2288	4232	<input type="checkbox"/>			Possible gas	
Total Depth	2488	4032	<input type="checkbox"/>	350		6-1/4" hole. 4-1/2" 10.5 J-55 STC casing. Cement with 382 cuft. Circulate cement to surface.	

## Reference Wells:

Reference Type	Well Name	Comments
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## 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

Comments: Location/Tops/Logging - FCNM027N010W25SE1 Twin well is Frost 9 SE25-27N-10W.

Zones - FCNM027N010W25SE1

General/Work Description - MAKE SURE COST INCLUDE JET PUMP-1/2007 added PC formation