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Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 23 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

Farmington Field Office  
Bureau of Land Management

4. Office  
5. Lease Serial No.  
SF-079266 ✓

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

6. If Indian, Allottee or Tribe Name  
RCVD JAN 25 '13

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well  
 Oil Well  Gas Well  Other

7. If Unit of CA/Agreement, Sale and/or Lease, State and/or District  
BLM O&G, DIV. DIST 3

2. Name of Operator  
Burlington Resources Oil & Gas Company LP

8. Well Name and No.  
Vaughn 32N ✓

3a. Address  
PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)  
(505) 326-9700

9. API Well No.  
30-039-30983 ✓

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Surface Unit F (SE/NW), 1790' FNL & 1740' FWL, Section 29, T26N, R6W ✓

10. Field and Pool or Exploratory Area  
Blanco MV/Basin DK ✓

11. Country or Parish, State  
Rio Arriba ✓, New Mexico ✓

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change of Plan</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Deepen TD</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

WORK

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources requests permission to deepen the subject well to a total depth 7597' (TVD) which is approx. 160' deeper than permitted. We will be mud drilling the production hole and will have a mud logger on site. Deepening to this depth will allow us to test the Encinal and perform better frack on the entire DK zone. The cement volumes will be adjusted accordingly.

ACCEPTED FOR RECORD

JAN 23 2013

FARMINGTON FIELD OFFICE  
BY William Tamberson

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Arleen White

Title  
Staff Regulatory Tech

Signature  
*Arleen White*

Date  
1/22/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instruction on page 2)

NMOCD Ar

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San Juan Business Unit

**PROJECT PROPOSAL - New Drill / Sidetrack**

VAUGHN 32N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9336			AFE \$: 1,845,134.24	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA	API #: 3003930983
Geologist:		Phone:		Geophysicist:		Phone:
Geoscientist:		Phone:		Prod. Engineer:		Phone:
Res. Engineer:		Phone:		Prod. Field Lead:		Phone:
<b>Primary Objective (Zones):</b>						
Zone	Zone Name					
FRR	BASIN DAKOTA (PRORATED GAS)					
RON	BLANCO MESAVERDE (PRORATED GAS)					
<b>Location: Surface Datum: Code: NAD 27</b>						
Latitude: 36.459574		Longitude: -107.493656		X:	Y:	Section: 29 Range: 006W
Footage X: 1740 FWL		Footage Y: 1790 FNL		Elevation: 6764 (FT)		Township: 026N
Tolerance:						
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:
Formation Data: Assume KB = 6779 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6579		<input type="checkbox"/>		
200' 9 5/8" 32.3 ppf, J-55, STC casing. Cement with 121 cuft. Circulate cement to surface.						
OJO ALAMO	2290	4489		<input type="checkbox"/>		
KIRTLAND	2462	4317		<input type="checkbox"/>		
FRUITLAND	2549	4230		<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	2956	3823		<input type="checkbox"/>		
LEWIS	3057	3722		<input type="checkbox"/>		
HUERFANITO BENTONITE	3376	3403		<input type="checkbox"/>		
CHACRA	3821	2958		<input type="checkbox"/>		
UPPER CLIFF HOUSE	4549	2230		<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	4811	2168		<input type="checkbox"/>	446	Cliffhouse Is Wet
MENEFEE	4627	2152		<input type="checkbox"/>		Est. Top Perf - 4827( 1952)
INTERMEDIATE CASING DEEP SET	4777	2002		<input type="checkbox"/>		132 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 929 cuft. Circulate cement to surface.
POINT LOOKOUT	5200	1579		<input type="checkbox"/>		GAS
MANCOS	5531	1248		<input type="checkbox"/>		
UPPER GALLUP	6281	498		<input type="checkbox"/>		
GREENHORN	7139	-360		<input type="checkbox"/>		
GRANEROS	7195	-416		<input type="checkbox"/>		
TWO WELLS	7251	-472		<input type="checkbox"/>	2746	Gas
PAGUATE	7292	-513		<input type="checkbox"/>		
UPPER CUBERO	7336	-557		<input type="checkbox"/>		
LOWER CUBERO	7366	-587		<input type="checkbox"/>		Suggest mud drilling due to area wells getting condensate wet in Gallup.
OAK CANYON	7393	-614		<input type="checkbox"/>		Est. Btm Perf - 7422 (- 643 ) based on offset wells
ENCINAL	7437	-658		<input type="checkbox"/>		TD - T/ENCN plus 160' which will be close to Morrison top - this assumes mud drilling.
BURRO CANYON	7483	-704		<input type="checkbox"/>		If air drilled then go 50' into Encinal.

## PROJECT PROPOSAL - New Drill / Sidetrack

VAUGHN 32N

DEVELOPMENT

Total Depth 7597 -818  184 6.25" hole, 4-1/2" 11.6 ppf, L-80 LTC casing. Cement with 353 cuft. Circulate cement to inside 7" csg.

MORRISON 7611 -832

Reference Wells:		
Reference Type	Well Name	Comments
Production	Vaughn 31	26N 6W 29 SE NW NE
Production	Vaughn 32M	26N 6W 29 SE NW NW
Production	Vaughn 32	26N 6W 29 SW NE SW

**Logging Program:**  
 Intermediate Logs:  Log only if show  GR/ILD  Triple Combo

TD Logs:  Triple Combo  Dipmeter  RFT  Sonic  VSP  TDT  Other  
 Cased Hole GR / CBL  
 Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

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