

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTIVITY DOES NOT CONSTITUTE  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATION  
ON FEDERAL AND INDIAN LANDS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
DRILL

RECEIVED

5. Lease Number  
NM-019413  
Unit Reporting Number

1b. Type of Well  
GAS

JUN 30 2010

6. If Indian, All. or Tribe

2. Operator  
**BURLINGTON**  
RESOURCES Oil & Gas Company, LP

Bureau of Land Management  
Farmington Field Office

7. Unit Agreement Name  
RCVD JUL 15 '10  
OIL CONS. DIV.  
DIST. 3

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499  
(505) 326-9700

8. Farm or Lease Name  
Mitchell  
9. Well Number  
2

4. Location of Well  
Surface: Unit N(SESW), 695' FSL & 1985' FWL  
  
Surface: Latitude: 36.92270° N (NAD83)  
Longitude: 108.12117° W

10. Field, Pool, Wildcat  
Aztec Pictured Cliffs

11. Sec., Twn, Rge, Mer. (NMPM)  
Sec. 5, T31N, R12W

API # 30-045-35178

14. Distance in Miles from Nearest Town  
5 miles from La Plata

12. County  
San Juan  
13. State  
NM

15. Distance from Proposed Location to Nearest Property or Lease Line  
660'

16. Acres in Lease  
397.620

17. Acres Assigned to Well  
160.00 - SW/4

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease  
160' from Noble Mitchell 1 (DK)

19. Proposed Depth  
2518'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
5943' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: Dollie L. Busse  
Dollie L. Busse (Staff Regulatory Tech)

June 29, 2010  
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 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

Bond Numbers NMB-000015 and NMB-000089

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

JUL 19 2010

NMOCD

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND  
APPROVED BY THE NMOCD FOR: A PIT, CLOSED  
LOOP SYSTEM, BELOW GRADE TANK, OR  
PROPOSED ALTERNATIVE METHOD, PURSUANT TO  
NMOCD PART 19.15.17, PRIOR TO THE USE OR  
CONSTRUCTION OF THE ABOVE APPLICATIONS

NOTIFY AZTEC OGD 24 HRS.  
PRIOR TO CASING & CEMENT

PC

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

Form C-102  
Revised October 12, 2005  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

JUN 30 2010

☐ AMENDED REPORT

Bureau of Land Management  
Burlington Field Office

WELL LOCATION AND ACREAGE DEDICATION FEAT

*API Number 30-045-35178		*Pool Code 71280	*Pool Name Aztec PICTURED CLIFFS	
*Property Code 26634	*Property Name MITCHELL		*Well Number 2	
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5943'	

10 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	5	31N	12W		695	SOUTH	1985	WEST	SAN JUAN

11 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
*Dedicated Acres 160.0 Acres - SW/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

16 2642.64'				2640.66'				17 OPERATOR CERTIFICATION	
1281.06'	LOT 4	LOT 3	LOT 2	LOT 1	1269.84'	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.			
1306.14'					1302.84'	Signature <u>Ethel Tally</u> Date <u>3/19/10</u>			
								Printed Name <u>Ethel Tally</u>	
18 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.									
Survey Date: JANUARY 13, 2010									
Signature and Seal of Professional Surveyor									
2612.94'				2605.68'					
1985'				660'					
1915'				645'					
5297.16'									
LEASE NMNM-019413									
LAT: 36°55'36.22"N LONG: 108°07'23.25"W DATUM: NAD1927									
LAT: 36°55'36.22"N LONG: 108°07'23.25"W DATUM: NAD1927									
5									
JASON C. EDWARDS NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 15269									
JASON C. EDWARDS Certificate Number 15269									

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MITCHELL 2

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9421		AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

## Primary Objective (Zones):

Zone	Zone Name
R20003	PICTURED CLIFFS(R20003)

## Location: Surface Datum Code: NAD 27 Straight Hole

Latitude: 36.922698	Longitude: -108.120541	X:	Y:	Section: 05	Range: 012W
Footage X: 1985 FWL	Footage Y: 695 FSL	Elevation: 5943	(FT)	Township: 031N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2011	Completion Date:	Date In Operation:
Formation Data: Assume KB = 5958 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5838		<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1300	4658		<input type="checkbox"/>			
KIRTLAND	1535	4423		<input type="checkbox"/>			
FRUITLAND	1672	4286		<input type="checkbox"/>			Gas
PICTURED CLIFFS	2318	3640		<input type="checkbox"/>	714		Gas; TD - 200' below T/PCCF
Total Depth	2518	3440		<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 338 cuft. Circulate cement to surface.

## Reference Wells:

Reference Type	Well Name	Comments
Production	Leeds 1E	31N 12W 8 NE SW NW
Production	Newberry 9	31N 12W 5 NE SW SE
Production	Mitchell 1-5	31N 12W 5 SE 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

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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**Directions from the Intersection of US Hwy 550 & State Hwy 574**  
**in Aztec, New Mexico to Burlington Resources Oil & Gas Company Mitchell #2**  
**695' FSL & 1985' FWL, Section 5, T31N, R12W, NMPM, San Juan County, NM**

**Latitude : 36.92270°N Longitude : 108.12117°W Datum : NAD1983**

From the intersection of US Hwy 550 & State Hwy 574 in Aztec, NM, travel North-westerly on State Hwy 574 for 10.2 miles to new access on left-hand side @ Milepost 3.95 which continues for 170' to staked location which partially overlaps an existing wellpad.