

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 29 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-078200-B Unit Reporting Number
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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Riddle B 9. Well Number #11N
4. Location of Well Serf: Unit F (SENW), 1515' FNL & 1430' FWL, Bottom: Unit D (NWNW), 800' FNL & 710' FWL, Serf: Latitude 36.800695' N Longitude 107.857665' W Bottom: Latitude 36.802649' N Longitude 107.860076' W	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T30N, R10W API # 30-045-34810
14. Distance in Miles from Nearest Town 9 miles from Aztec, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well 315.56 W/2
16. Acres in Lease 949.760 acres	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 75' from Riddle B 11E	
19. Proposed Depth 7485' TVD	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6302' GL This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin, Regulatory Technician	<u>9/29/08</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 10/8/08

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 d States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction

Example Master Plan Type 3

Bond Numbers NMB-000015

Hold C104

for Directional Survey  
and "As Drilled" plat

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.

OCT 14 2008

NMOCD

RECEIVED  
BLM  
SEP 29 2008

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

## 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

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34810		<sup>2</sup> Pool Code 71599/72319		<sup>3</sup> Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
<sup>4</sup> Property Code 7427		<sup>5</sup> Property Name RIDDLE B			<sup>6</sup> Well Number 11N
<sup>7</sup> OGRID No 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP.			<sup>9</sup> Elevation 6302

<sup>10</sup> SURFACE LOCATION

UL or lot no. F	Section 23	Township 30-N	Range 10-W	Lot Idn	Feet from the 1515	North/South line NORTH	Feet from the 1430	East/West line WEST	County SAN JUAN
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. D	Section 23	Township 30-N	Range 10-W	Lot Idn 4	Feet from the 800	North/South line NORTH	Feet from the 710	East/West line WEST	County SAN JUAN
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<sup>12</sup> Dedicated Acres 315.56	<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

<sup>16</sup> <p><b>BOTTOM HOLE</b> NAD 83 LAT: 36.802649° N LONG: 107.860076° W NAD 27 LAT: 36°48.158689' N LONG: 107°51.567451' W</p> <p><b>WELL FLAG</b> NAD 83 LAT: 36.800695° N LONG: 107.857665° W NAD 27 LAT: 36°48.041443' N LONG: 107°51.422768' W</p> <p><b>W/2 DEDICATED ACREAGE</b> SF - 078200-B SECTION 23 T-30-N, R-10-W</p>	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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. <i>Crystal Walker</i> 3/7/08 Signature Crystal Walker Printed Name Regulatory Technician Title and E-mail Address March 7, 2008 Date
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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: 2/22/08 Signature and Seal of Professional Surveyor: Certificate Number: NM 11393

**COMPANY**  
**Charge Code**  
**WELL NAME**

BURLINGTON RESOURCES

WAN.CDR.7439

RIDDLE B # 11 N

DATE

2/29/2008

**DUAL WELL**  
**TRIPLE WELL**

WELL NAME

RIDDLE B 3 A

WELL NAME

RIDDLE B 11 E

WELL NAME

RIDDLE B 222 S

**COORDINATES**

SEC

TNSHP

RANGE

LATITUDE

LONGITUDE

C 23

30 N

10 W

36 48.1463 N

107 51.3973 W

**COUNTY**

SAN JUAN

RECTIFIER

SOLAR

GROUND BED

240 V METER POLE

480 V METER POLE

D C CABLES

A C CABLES

PRIMARY POWER

DISTANCE TO POWER

UNDERGROUND

PUMPJACK

WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
60/30	X	30/20		
	X			
# 8	500 FT			
		1 MILE	CITY FMT	

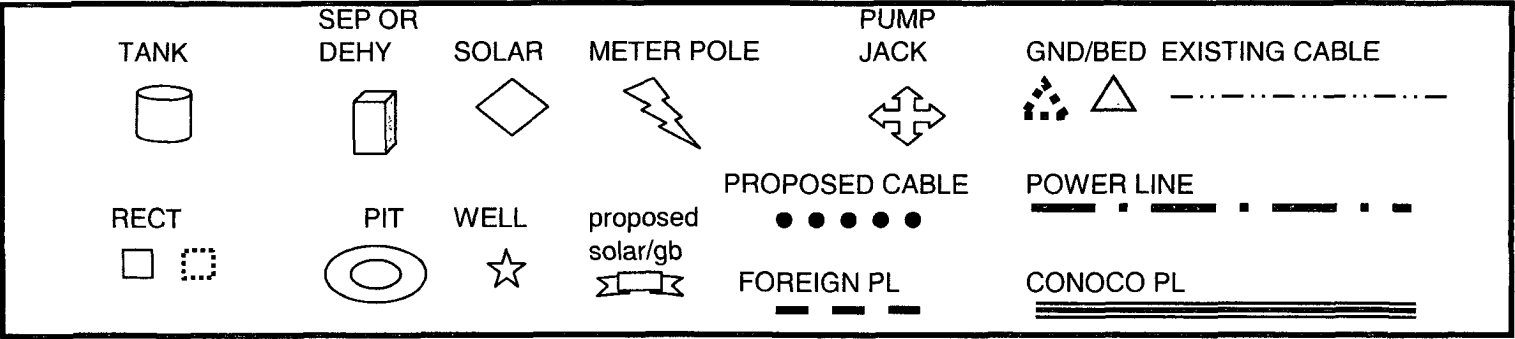
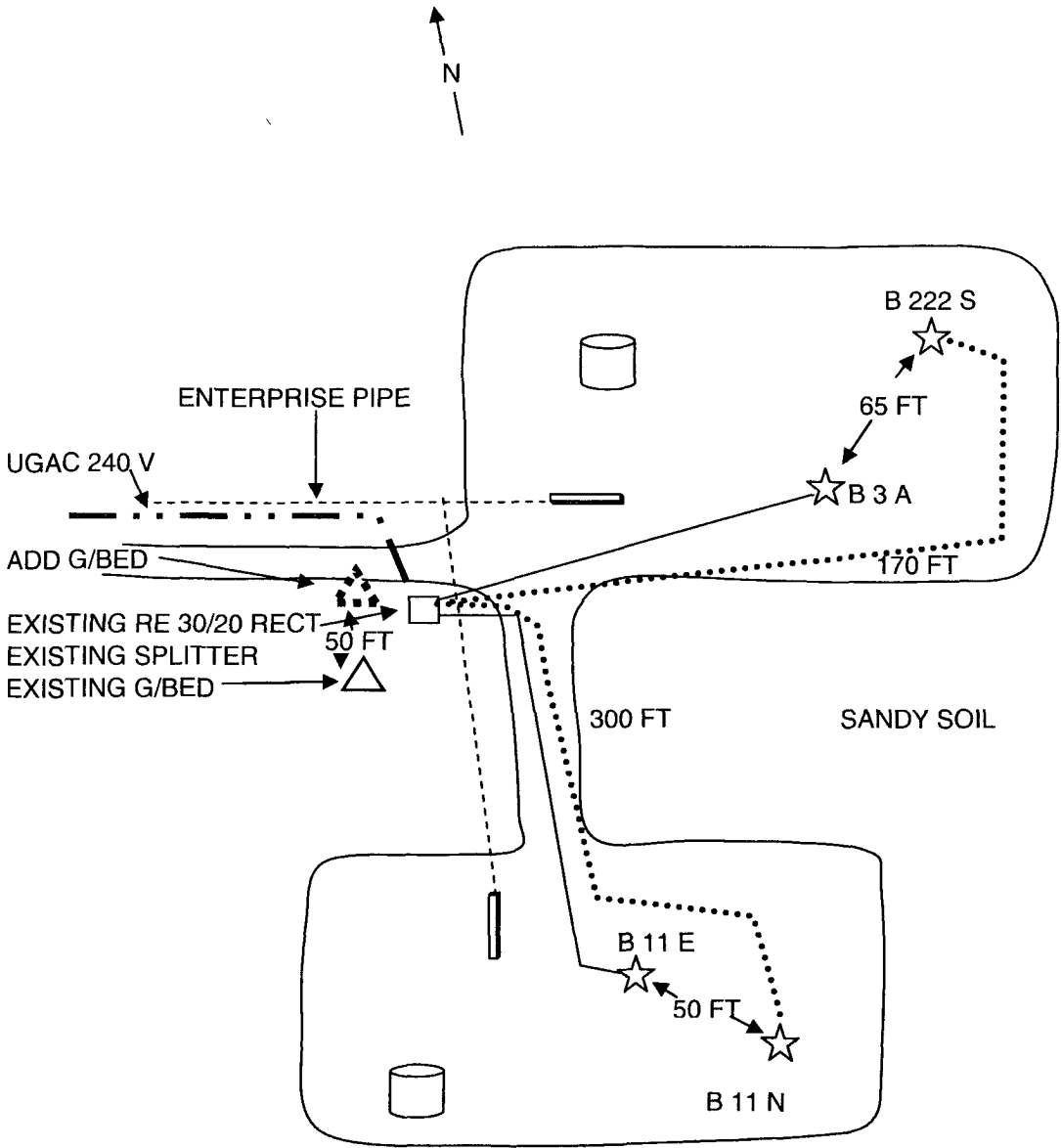
**COMMENTS**

UPGRADE RECTIFIER TO 60/30 - INSTALL NEW G/BED -

INSTALL NEG CABLES TO NEW WELLS - SANDY SOIL

2 NEW PROPOSED WELLS

<b>WELL NAME</b>	<b>RIDDLE B 11 N</b>
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# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

RIDDLE B 11N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8028		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	

## Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

## Location: Datum Code: NAD 27

Latitude: 36.800691	Longitude: -107.857046	X:	Y:	Section: 23	Range: 010W
Footage X: 1430 FWL	Footage Y: 1515 FNL	Elevation: 6302	(FT)	Township: 030N	
Tolerance:					

## Location: Datum Code: NAD 27

Latitude: 36.802645	Longitude: -107.859457	X:	Y:	Section: 23	Range: 010W
Footage X: 710 FWL	Footage Y: 800 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					

Location Type: Year Round Start Date (Est.): 1/1/2009 Completion Date: Date In Operation:

Formation Data: Assume KB = 6317 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	215	6102	<input type="checkbox"/>			12-1/4" hole. 9 5/8", 32.3 ppf, H-40, STC casing. Cement with 170 cubic ft. Circulate cement to surface.
OJO ALAMO	1653	4664	<input type="checkbox"/>			
KIRTLAND	1739	4578	<input type="checkbox"/>			
FRUITLAND	2486	3831	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2922	3395	<input type="checkbox"/>			
LEWIS	3074	3243	<input type="checkbox"/>			
Intermediate Casing	3174	3143	<input type="checkbox"/>			8-3/4" hole. 7", 23 ppf, J-55, LTC casing. Cement with 762 cubic ft. Circulate cement to surface.
HUERFANITO BENTONITE	3662	2655	<input type="checkbox"/>			
CHACRA	3927	2390	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	4535	1782	<input type="checkbox"/>	469		Gas
MENEFEE	4710	1607	<input type="checkbox"/>			
POINT LOOKOUT	5199	1118	<input type="checkbox"/>			
MANCOS	5638	679	<input type="checkbox"/>			
GALLUP	6443	-126	<input type="checkbox"/>			
GREENHORN	7184	-867	<input type="checkbox"/>			
GRANEROS	7240	-923	<input type="checkbox"/>			
TWO WELLS	7291	-974	<input type="checkbox"/>	2150		Gas
LOWER CUBERO	7433	-1116	<input type="checkbox"/>			
Total Depth	7485	-1168	<input type="checkbox"/>			6-1/4" hole. 4-1/2", 11.6 ppf, J-55/L-80, LTC casing. Cement with 587 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.

## Reference Wells:

Reference Type	Well Name	Comments
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# ConocoPhillips or its affiliates

## Planning Report

<b>Database:</b>	EDM Central Planning	<b>Local Co-ordinate Reference:</b>	Well Riddle B 11N
<b>Company:</b>	ConocoPhillips SJB	<b>TVD Reference:</b>	RKB @ 6317.0ft (Generic Rig)
<b>Project:</b>	San Juan Basin - New Mexico Wells	<b>MD Reference:</b>	RKB @ 6317.0ft (Generic Rig)
<b>Site:</b>	Other Named Wells	<b>North Reference:</b>	True
<b>Well:</b>	Riddle B 11N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore Design:</b>	Principal Planned		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,744.9	1,653.0	Ojo Alamo		0.00		
1,842.6	1,739.0	Kirtland		0.00		
2,683.6	2,486.0	Fruitland		0.00		
3,134.7	2,922.0	Pictured Cliffs		0.00		
3,287.4	3,074.0	Lewis		0.00		
3,875.4	3,662.0	Huerfano Bentonite		0.00		
4,140.4	3,927.0	Chacra		0.00		
4,748.4	4,535.0	Massive Cliffhouse		0.00		
4,923.4	4,710.0	Menefee		0.00		
5,412.4	5,199.0	Pt Lookout		0.00		
5,851.4	5,638.0	Mancos Shale		0.00		
6,656.4	6,443.0	Gallup		0.00		
7,397.4	7,184.0	Greenhorn		0.00		
7,453.4	7,240.0	Graneros		0.00		
7,504.4	7,291.0	Two Wells		0.00		
7,646.4	7,433.0	Lower Cubero		0.00		

## **BURLINGTON RESOURCES OIL & GAS COMPANY LP**

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**RIDDLE B 11N**

**1515' FNL, 1430' FWL**

**SECTION 23, T-30-N, R-10-W, N.M.P.M.**

**SAN JUAN COUNTY, NEW MEXICO**

**NAD 83 LAT.: 36.800695° N LONG.: 107.857665° W**

**ELEV.: 6302 NAVD88**

**NO NEW ACCESS**

- From Aztec, New Mexico: At the intersection of Hwy 550 and Aztec Boulevard (Safeway and Conoco).
- Go: 1.1 miles north on Hwy 550, turn right (east) on state Hwy 173 toward Navajo Dam.
- Go: 7.4 miles east on Hwy 173. Turn left (north) on existing access road to Riddle #3A well pad.
- Go: 0.3 miles north and turn right (east) on existing access road to Riddle #3A location. Drive 200' south on existing access road. Proposed Riddle B 11N is staked on existing well location of Riddle B 11E.