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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAR 08 2010

Bureau of Land Management  
Farmington Field Office

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-079937 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 RCVD JAN 21 '11 OIL CONS. DIV.
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name DIST. 3 Turner Hughes 9. Well Number 16N
4. Location of Well Unit C(NENW), 1245' FNL & 1965' FWL  Latitude: 36.593465° N (NAD83) Longitude: 107.760050° W	10. Field, Pool, Wildcat Blanco MV / Basin DK  11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 11, T27N, R9W  API # 30-045-35721
14. Distance in Miles from Nearest Town 15 miles / Blanco	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 1245'	13. State NM
16. Acres in Lease 640.00	17. Acres Assigned to Well 320.00 N/2 - MV/DK
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1110' from Turner Hughes 2 (PC)	
19. Proposed Depth 6786'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6144' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>3/8/2010</u>

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 3

Bond Numbers NMB-000015 and NMB-000089

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

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

FEB 01 2011

NMOCD

BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDS

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

MAR 08 2010

☐ AMENDED REPORT

Bureau of Land Management  
WELL LOCATION AND ACREAGE DEDICATION

<sup>1</sup> API Number 30-045-35121	<sup>2</sup> Pool Code 71599 / 72319	<sup>3</sup> Pool Name BASIN DAKOTA / BLANCO MESAVERDE
<sup>4</sup> Property Code 7614	<sup>5</sup> Property Name TURNER HUGHES	<sup>6</sup> Well Number 16N
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 6144

<sup>10</sup> SURFACE LOCATION

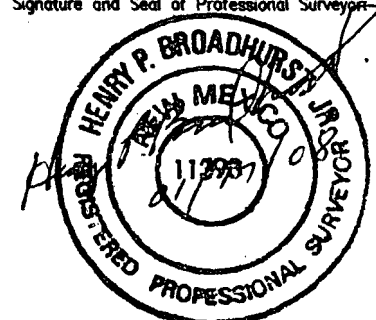
UL or lot no. C	Section 11	Township 27-N	Range 9-W	Lot 1dn	Feet from the 1245	North/South line NORTH	Feet from the 1965	East/West line WEST	County SAN JUAN
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. C	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
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<sup>12</sup> Dedicated Acres 320.00	<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> S 89°08'32" W S 89°12' W 2617.1' 2614.9' (M) (R) 1245' 1965'	N/2 DEDICATED ACREAGE SF-079937 SECTION 11 T-27-N, R-9-W	<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. Signature Sasha Spangler Printed Name Regulatory Technician Title and E-mail Address 1-29-08 Date
	WELL FLAG NAD 83 LAT: 36.593485° N LONG: 107.760050° W NAD 27 LAT: 36°35.607464' N LONG: 107°45.566145' W	<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: 12/12/07 Signature and Seal of Professional Surveyor  Certificate Number: NM 11393

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

TURNER HUGHES 16N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7423				AFE \$: 1,223,051.52	
Field Name: SAN JUAN		Rig: XXX Deferred Regulatory		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<b>Location:</b> Surface <b>Datum Code:</b> NAD 27 <b>Straight Hole</b>							
Latitude: 36.593457		Longitude: -107.759436		X:	Y:	Section: 11	Range: 009W
Footage X: 1965 FWL		Footage Y: 1245 FNL		Elevation: 1965 (FT)	Township: 027N		
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6159      Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	5959	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	1300	4859	<input type="checkbox"/>				
KIRTLAND	1370	4789	<input type="checkbox"/>				
FRUITLAND	1999	4160	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	2215	3944	<input type="checkbox"/>				
LEWIS	2375	3784	<input type="checkbox"/>				
Intermediate Casing	2475	3684	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 557 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	2720	3439	<input type="checkbox"/>				
CHACRA	3126	3033	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	3750	2409	<input type="checkbox"/>	600		Gas	
MENEFEE	3792	2367	<input type="checkbox"/>				
POINT LOOKOUT	4480	1679	<input type="checkbox"/>				
MANCOS	4830	1329	<input type="checkbox"/>				
GALLUP	5678	481	<input type="checkbox"/>				
GREENHORN	6443	-284	<input type="checkbox"/>				
GRANEROS	6507	-348	<input type="checkbox"/>				
TWO WELLS	6555	-396	<input type="checkbox"/>	1925		Gas	
PAGUATE	6612	-453	<input type="checkbox"/>				
CUBERO	6672	-513	<input type="checkbox"/>			Estimated bottom perf at 6766' (-607SS)	
ENCINAL	6752	-593	<input type="checkbox"/>			TD is picked to complete upper sand in Encinal - do not complete lower sand.	
Total Depth	6786	-627	<input type="checkbox"/>			6-1/4" hole, 4-1/2" 10.5 ppf, J-55, STC casing. Cement w/ 668 cuft. Circulate cement a minimum of 100' inside the previous casing string.	
<b>Reference Wells:</b>							
Reference Type	Well Name		Comments				
Production	Turner Hughes 13		NE11-27N-9W				

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

TURNER HUGHES 16N

DEVELOPMENT

## Logging Program:

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

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

## Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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# **BURLINGTON RESOURCES OIL AND GAS COMPANY**

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**TURNER HUGHES 16M<sup>N</sup>**

**1245' FNL, 1965' FWL**

**SECTION 11, T-27-N, R-9-W, N.M.P.M.,**

**SAN JUAN COUNTY, NEW MEXICO**

**NAD 83 LAT.: 36.593465° N LONG.: 107.760050° W**

**ELEV.: 6144 NAVD88**

**NEW ACCESS 1248.9'**

**DRIVING DIRECTIONS TO: BROG TURNER HUGHES 16N  
FROM BLANCO, N.M. POST OFFICE:**

- GO 1.3 MILES EAST ON HWY 64 TO MILE POST 74. TURN RIGHT ON C.R. 4450 (LARGO CANYON)
- GO 4.2 MILES AND CROSS LARGO WASH AT "5 MILE BRIDGE".
- GO 3.1 MILES SOUTHERLY ON CR 4450. TURN RIGHT ON CR 7007.
- GO 5.2 MILES SOUTH ON CR 7007. TURN RIGHT AT CR 7225.
- GO 0.7 MILES ON CR 7225. STAY RIGHT AT FORK IN ROAD.
- GO 0.4 MILES WEST. TURN RIGHT.
- GO 0.3 MILES NORTH. TURN RIGHT INTO EXISTING WELL PAD FOR TURNER HUGHES #13A. BEGIN 1248.9 FT. NEW ACCESS FROM NORTH EDGE OF PAD.