

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 03 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management  
Farmington Field Office

1a. Type of Work  
DRILL

5. Lease Number  
USA NM-012708  
Unit Reporting Number  
**NMNM-73278**  
6. If Indian, All. or Tribe

1b. Type of Well  
GAS

2. Operator  
**BURLINGTON**  
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  
Howell M  
9. Well Number  
#1B

4. Location of Well  
Unit C (NENW), 660' FNL & 720' FWL  
  
Latitude 36.773138 N  
Longitude 107.718266 W

10. Field, Pool, Wildcat  
Blanco Mesaverde  
  
11. Sec., Twn, Rge, Mer. (NMPM)  
C Sec. 31, T30N, R8W  
  
API # 30-045-34861

14. Distance in Miles from Nearest Town  
9.1 mile/Blanco

12. County  
San Juan  
13. State  
NM

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

16. Acres in Lease  
904.31

17. Acres Assigned to Well  
MV 287.52 (W/2)  
**Section 30 = SW 4 Section 31 = W2**

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease  
1670' from Howell M 1/MV

19. Proposed Depth  
4952'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
5835' GL

22. Approx. Date Work will Start  
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

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: Rhonda Rogers  
Rhonda Rogers (Regulatory Technician)

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 3

Bond Numbers NMB-000015 and NMB-000089

NMOCD

DEC 22 2008

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

RCVD DEC 18 '08  
OIL CONS. DIV.  
DIST. 2

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.

## 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 <b>30-045-34861</b>	<sup>2</sup> Pool Code <b>72319</b>	<sup>3</sup> Pool Name <b>BLANCO MESAVERDE</b>
<sup>4</sup> Property Code <b>7132</b>	<sup>5</sup> Property Name <b>HOWELL M</b>	<sup>6</sup> Well Number <b>1B</b>
<sup>7</sup> OGRID No. <b>14538</b>	<sup>8</sup> Operator Name <b>BURLINGTON RESOURCES OIL AND GAS COMPANY LP</b>	<sup>9</sup> Elevation <b>5835</b>

<sup>10</sup> SURFACE LOCATION

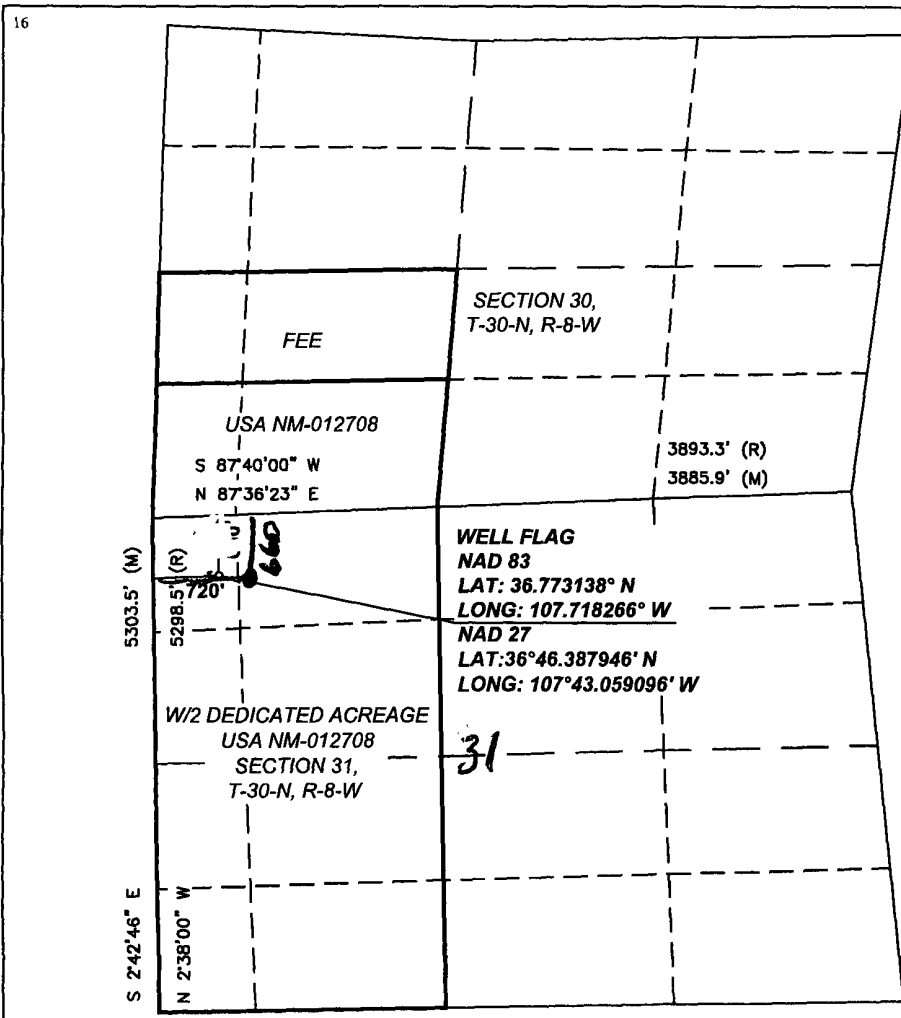
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>31</b>	<b>30-N</b>	<b>8-W</b>		<b>660</b>	<b>NORTH</b>	<b>720</b>	<b>WEST</b>	<b>SAN JUAN</b>

<sup>11</sup> 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
<b>C</b>									

<sup>12</sup> Dedicated Acres <b>292.52</b>	<sup>13</sup> Joint or Infill <b>W/2-31</b>	<sup>14</sup> Consolidation Code <b>SW/4-30</b>	<sup>15</sup> Order No. <b>R-120</b>
--	--	--	---

Section 30=SW/4  
Section 31=W/2  
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>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.

*Crystal Walker* 3/19/08  
Signature

**Crystal Walker** 3-19-08  
Printed Name

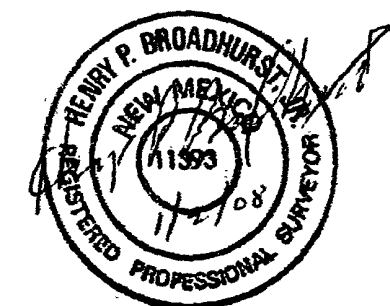
**Regulatory Technician**  
Title and E-mail Address

**March 19th, 2008**  
Date

<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: 11/28/07  
Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

**COMPANY**  
**Charge Code**  
**WELL NAME**  
**DUAL WELL**  
**TRIPLE WELL**

BURLINGTON		
WAN.RFE.PD07.KG		
HOWELL M # 1 B	DATE	1/4/2007
WELL NAME		
WELL NAME		

**COORDINATES**

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
C 31	30 N	8 W	36.773138 N	107.718266 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

COMPRESSOR

RTU

SAMS

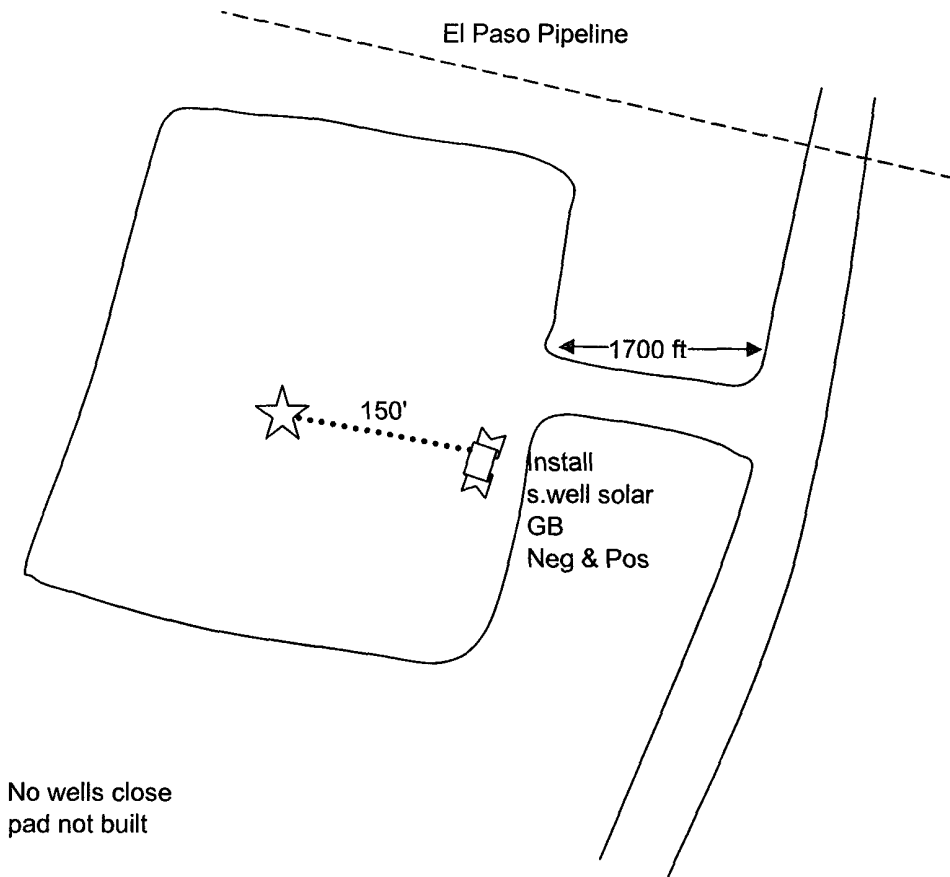
TANKS







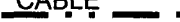





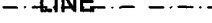


SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
single	x			
	x			
# 8	200 ft			
			city Fmt	
			x	
			1 mile	

**COMMENTS**

Install single well solar system
sandy soil - no wells close - pad not built

<b>WELL NAME</b>	<b>Howell M # 1 B</b>
------------------	-----------------------



TANK	SEP OR DEHY	SOLAR	METER POLE	PUMP JACK	GND BED	EXISTING CABLE
						
RECT	PIT	WELL	PROPOSED SOLAR/GB		PROPOSED CABLE	POWER LINE
						
					FOREIGN CABLE	CONOCO PIPELINE
						

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL M 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7440		AFE \$: 481,748.08	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
<b>Primary Objective (Zones):</b>					
Zone	Zone Name				
RON	BLANCO MESAVERDE (PRORATED GAS)				
<b>Location:</b> Surface <b>Datum Code:</b> NAD 27 <b>Straight Hole</b>					
Latitude: 36.773133		Longitude: -107.717652		X:	Y:
Footage X: 720 FWL		Footage Y: 660 FNL		Elevation: 5835 (FT)	Township: 030N
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:	
Formation Data: Assume KB = 5847		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	5647	<input type="checkbox"/>		
OJO ALAMO	1327	4520	<input type="checkbox"/>		
KIRTLAND	1522	4325	<input type="checkbox"/>		
FRUITLAND	2082	3765	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	2529	3318	<input type="checkbox"/>		
LEWIS	2892	2955	<input type="checkbox"/>		
Intermediate Casing	2992	2855	<input type="checkbox"/>		
HUERFANITO BENTONITE	3279	2568	<input type="checkbox"/>		
CHACRA	3512	2335	<input type="checkbox"/>		
MASSIVE CLIFF HOUSE	4250	1597	<input type="checkbox"/>	292	Gas
MENEFEE	4328	1519	<input type="checkbox"/>		
MASSIVE POINT LOOKOUT	4722	1125	<input type="checkbox"/>		
Total Depth	4952	895	<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.  8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 674 cuft. Circulate cement to surface.  6 1/4" hole. 4 1/2" 10.5 ppf J-55 ST&C. Cement with 273 cuft. Circulate cement to at least 100-ft inside intermediate csg.					
<b>Reference Wells:</b>					
Reference Type	Well Name		Comments		
Intermediate	State Gas Unit J #1		T30N R09W Sec 36		
Intermediate	Howell M # 1		T30N R08W Sec 30		

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL M 1B

DEVELOPMENT

## Logging Program:

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

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

GR\_CBL. Bottom perf 100' above TD.

## Additional Information:

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

Comments: Location/Tops/Logging - MVNM030N008W31NW1 Prefer C,F, no existing wells in 1/4 section, small/odd shaped section limits legal window, topo could also be restrictive.

Zones - MVNM030N008W31NW1

Section 31 is truncated and has a small W/2. The well proration unit will include W/2 Section 31 (Lts 7, 8, 9, 10, 15, 16, 17, 18 - 176.00 acs) and SW Section 30 (NESW & Lts 3, 9, 10, 11 - 106.52 acs) and contain 282.52 acres. tbs - 10/19/07

General/Work Description - 8/11/08: No site survey or GW data in iWaters. From aerials and topos no reason to believe that well will be required to be closed loop. Approving AFE w/o closed loop costs. Getting w/ Drilling to update old cost estimate. Only small interest in DK in this db and Land has had no success in contacting Koch. Land recommends not pursuing DK at this time.

Include Lewis (Ballot will include Lewis)- 7/17/08 EML

NSP Order No. R-120 needed to be put on C-102 - dsw emailed D.Busse - 3/24/08; Order No. added to C-102 - P.R. completed - 3/26/08 - dsw



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

---

**HOWELL M 1B  
660' FNL, 720' FWL  
SECTION 31, T-30-N, R-8-W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
NAD 83 LAT.: 36.773138°N LONG.: 107.718266° W  
ELEV.: 5835 NAVD88  
NEW ACCESS ROAD 1653.8'**

## **DRIVING DIRECTIONS TO BROG HOWELL M 1B**

DRIVING DIRECTIONS START FROM BLANCO, N.M. ON HWY 64.

- GO 2.7 MI. EAST OF BLANCO. TURN LEFT ON HWY. 511.
- GO 5.7 MI. NORTH ON HWY. 511. TURN RIGHT ON WELL ACCESS ROAD.
- GO 0.4 MI. SOUTH EAST ON EXISTING ACCESS TO PIPELINE X-ING, TURN RIGHT AND BEGIN 1653.8' NEW ACCESS TO WELL PAD.