

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 APR - 5 PM 2:25

1a. Type of Work DRILL	5. Lease Number USA SF-078578-A Unit Reporting Number 210 FARMINGTON NM
1b. Type of Well GAS	6. If Indian, All. or Tribe
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 K 9. Well Number #1B
4. Location of Well Surf: Unit F (SENW), 2100' FNL & 1975' FWL SURF: Latitude 36° 47.9040 N Longitude 107° 40.9724 W	10. Field, Pool, Wildcat Blanco Mesaville 11. Sec., Twn, Rge, Mer. (NMPM) F Sec. 21, T30N, R8W API # 30-045-34265
14. Distance in Miles from Nearest Town 19 mile/Aztec	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 1975'	13. State NM
16. Acres in Lease	17. Acres Assigned to Well MV - 320 (W/2) DK W2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1090' from Howell K 1A	20. Rotary or Cable Tools Rotary
19. Proposed Depth 7072'	
21. Elevations (DF, FT, GR, Etc.) 5794' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	4-5-07 Date

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE ATM DATE 5/14/07

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 any statement or presentation to any officer or employee of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

✓ NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

NMOCD

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

5/17/07

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

RECEIVED
210 E. 10th St.
APR -5 PM 2:28

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- 34265	*Pool Code 72319 / 71599	*Pool Name Blanco Mesaverde / Basin Dakota
*Property Code 7130	*Property Name HOWELL K	*Well Number 1B
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 5794'

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
F	21	30N	8W		2100	NORTH	1975	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
F									
¹² Dedicated Acres 320 acres W/2					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. RCVD MAY16/07 OIL CONS. DIV.

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

<p>2641.98'</p> <p>2716.56'</p> <p>2642.64'</p> <p>2627.46'</p> <p>5270.76'</p> <p>5155.26'</p> <p>1975'</p> <p>2100'</p> <p>660'</p> <p>445'</p> <p>21</p> <p>LAT: 36.79840°N LONG: 107.68349°W DATUM: NAD83</p> <p>LAT: 36.47.9040°N LONG: 107.40.9724°W DATUM: NAD27</p> <p>LEASE USA SF-078578-A</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Rhonda Rogers</i> 1-17-07 Signature Date Rhonda Rogers Printed Name</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Survey Date: DECEMBER 13, 2006</p> <p>Signature and Seal of Professional Surveyor</p> <p> JASON C. EDWARDS Certificate Number 15269</p>
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State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.

30-045-

34265

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA SF-078578-B

7. Lease Name or Unit Agreement Name

Howell K

8. Well Number

#1B

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco Mesaverde

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter F : 2100' feet from the North line and 1975' feet from the West line
 Section 21 Township 30N Rng 8W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

5794'

Pit or Below-grade Tank Application

or Closure ☐Pit type New Drill Depth to Groundwater <100 Distance from nearest fresh water well>1000 Distance from nearest surface water<200

Pit Liner Thickness:

N/A

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐

OTHER:

New Drill ☒OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

4-5-07

Type or print name

Rhonda Rogers

E-mail address:

ogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #2

DATE

MAY 17 2007

Conditions of Approval (if any):

~ SURFACE OWNER ~

Bureau of Land Management

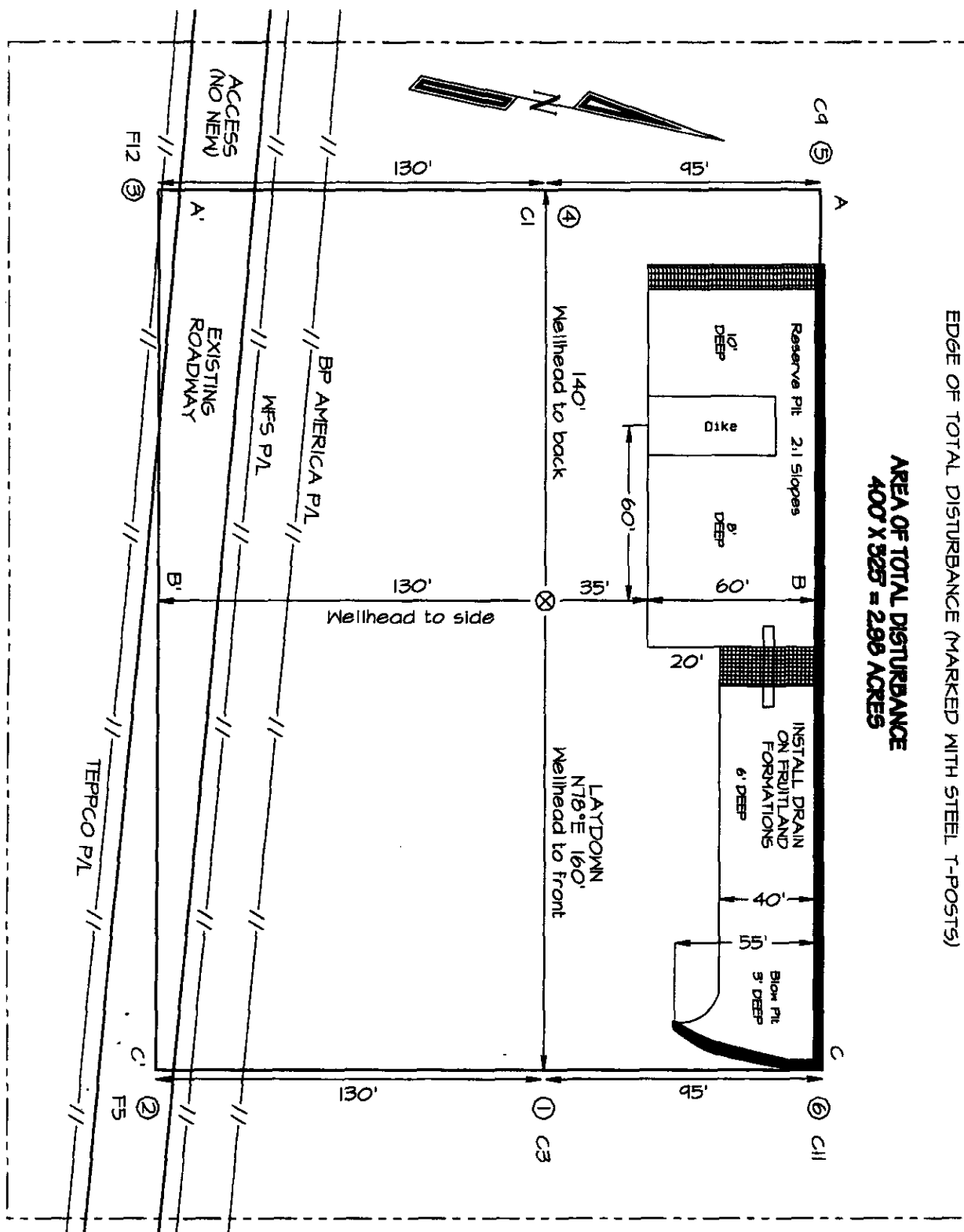
LATITUDE: 36°47.9040'N
LONGITUDE: 107°40.9724'W
DATUM: NAD1927

GRAPHIC SCALE 1"=50'
0 50 100

**BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL K #1B
2100' FNL & 1975' FWL, SECTION 21, T30N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5794'**

EDGE OF TOTAL DISTURANCE (MARKED WITH STEEL T-POSTS)

**AREA OF TOTAL DISTURANCE
400' X 325' = 2.98 ACRES**



NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

VERTICAL SCALE 1"=30'

C/LC/L

C-C'								
5804'								
5794'								
5784'								

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL K 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7062		AFE \$: 596,320.95	
Field Name: hBR_SAN JUAN		Rig: XX 2008 30N (2)		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:	

Primary Objective (Zones):	
Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude:	Longitude:	X:	Y:	Section: 21	Range: 008W
Footage X: 1975 FWL	Footage Y: 2100 FNL	Elevation: 5794	(FT)	Township: 030N	
Tolerance:					

Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data:	Assume KB = 5806	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	216	5590	<input type="checkbox"/>			12-1/4 hole. 216' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 171 cuft. Circulate cement to surface.
OJO ALAMO	1458	4348	<input type="checkbox"/>			
KIRTLAND	1548	4258	<input type="checkbox"/>			
FRUITLAND	2236	3570	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2568	3238	<input type="checkbox"/>			
LEWIS	2721	3085	<input type="checkbox"/>			
Intermediate Casing	2821	2985	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 635 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3228	2578	<input type="checkbox"/>			
CHACRA	3552	2254	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	4271	1535	<input type="checkbox"/>	220		Gas
MENEFEE	4383	1423	<input type="checkbox"/>			
MASSIVE POINT LOOKOUT	4748	1058	<input type="checkbox"/>			
MANCOS	5141	665	<input type="checkbox"/>			
UPPER GALLUP	6021	-215	<input type="checkbox"/>			
GREENHORN	6768	-962	<input type="checkbox"/>			
GRANEROS	6822	-1016	<input type="checkbox"/>			
TWO WELLS	6879	-1073	<input type="checkbox"/>	2225		
PAGUATE	6958	-1152	<input type="checkbox"/>			
UPPER CUBERO	6992	-1186	<input type="checkbox"/>			
LOWER CUBERO	7008	-1202	<input type="checkbox"/>			
ENCINAL	7062	-1256	<input type="checkbox"/>			
TOTAL DEPTH DK	7072	-1266	<input type="checkbox"/>			6-1/4" hole. 4-1/2", 10.5/11.6 ppf, J-55, STC/LTC casing. Cement with 579 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

HOWELL K 1B

DEVELOPMENT

Logging Programs	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
GR/CBL Est bottom perf -1247' subsea, ~9 feet above the T/Encinal.	

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

Comments: Location/Tops/Logging - MVNM030N008W21NW2. 2/9/2007 pm, added DK tops.

Zones - MVNM030N008W21NW2

General/Work Description - Moved from 2007 to 2008 due to 2007 Capex program adjustments 3/15/07 - LM
LEWIS INCLUDED