


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 18 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	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	5. Lease Number SF 078138	Farmington Field Office Bureau of Land Management
1b. Type of Well GAS		Unit Reporting Number CA NMMN 83982 (MV) NMMN 73758 (DK)	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name RCVD JUN 15 '12 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 Hartman 23 9. Well Number 1P		
4. Location of Well Surface: Unit K(NESW), 1537' FSL & 1783' FWL Surface: Latitude: 36.7946360° N (NAD83) Longitude: 107.9634245° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 23, T30N, R11W API # 30-045- 35323		
14. Distance in Miles from Nearest Town 6 miles from Aztec	San Juan	12. County NM	13. State
15. Distance from Proposed Location to Nearest Property or Lease Line 1537'			
16. Acres in Lease 2063.260	17. Acres Assigned to Well 318.48 (S/2) MV 320.00 (W/2) DK 319.91		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Hartman 23 (PC)			
19. Proposed Depth 6919'	 H₂S POTENTIAL EXIST	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5954' GL	22. Approx. Date Work will Start		
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	11-18-11 Date		

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

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

Hold C104

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

JUN 22 2012

for Directional Survey
and "As Drilled" plat

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DRILLING CONDITIONS OF APPROVAL

**An H2S Contingency Plan will be due to the Farmington Field Office prior to
spudding this wellbore.**



N 88°38'44" W - 2601.08'

N 88°25'04" W - 2596.80'

N 0°07'35" E - 2640.24'

N 0°01'22" W - 2667.03'

N 89°24'48" W - 2629.49'

N 0°01'41" E - 2609.78'

N 0°11'18" W - 2616.67'

N 89°26'02" W - 2625.11'

1537'

1783'

MULTIPLE FEE LEASES

USA SF-078138

LOT 1 (39.93)

LOT 2 (39.84)

LOT 3 (39.47)

LOT 4 (39.39)

LOT 7 (40.14)

LOT 8 (39.85)

LOT 5 (39.43)

LOT 8 (39.74)

LOT 9 (39.52)

USA SF-080113

JOSEPH S. HARTMAN ET UX

USA SF-078138

USA SF-080113

BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83, UNLESS OTHERWISE NOTED.

CONVERGENCE AT SURFACE LOCATION

G.N. = GRID NORTH
T.N. = TRUE NORTH

17 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.

Brandie Blakley 12/28/11

Signature Date

Brandie Blakley

Printed Name

blaklbn@conocophillips.com

E-mail Address

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.

12/27/10

Date of Survey

Signature and Seal of Professional Surveyor

MARSHALL W. LINDEEN

NEW MEXICO

17078

PROFESSIONAL SURVEYOR

17078

Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARTMAN 23 1P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0145				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20076	DAKOTA(R20076)						
R20002	MESAVERDE(R20002)						
Location: Surface Datum Code: NAD 27 Straight Hole							
Latitude: 36.794632	Longitude: -107.962802	X:	Y:	Section: 23		Range: 011W	
Footage X: 1783 FWL		Footage Y: 1537 FSL		Elevation: 5954 (FT)	Township: 030N		
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5969 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5769		<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	970	4999		<input type="checkbox"/>			
KIRTLAND	1101	4868		<input type="checkbox"/>			
FRUITLAND	1789	4180		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2369	3600		<input type="checkbox"/>			
LEWIS	2515	3454		<input type="checkbox"/>			
HUERFANITO BENTONITE	3123	2846		<input type="checkbox"/>			
CHACRA	3384	2585		<input type="checkbox"/>			
UPPER CLIFF HOUSE	3929	2040		<input type="checkbox"/>			Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	4078	1891		<input type="checkbox"/>	738		Gas
MENEFEE	4148	1821		<input type="checkbox"/>			Est. Top Perf - 4348 (1621)
Intermediate Casing	4298	1671		<input type="checkbox"/>		144	8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 968 cuft. Circulate cement to surface.
POINT LOOKOUT	4675	1294		<input type="checkbox"/>			
MANCOS	5072	897		<input type="checkbox"/>			
UPPER GALLUP	5928	41		<input type="checkbox"/>			
GREENHORN	6667	-698		<input type="checkbox"/>			
GRANEROS	6719	-750		<input type="checkbox"/>			
TWO WELLS	6779	-810		<input type="checkbox"/>	1735		Gas
PAGUATE	6849	-880		<input type="checkbox"/>			Est. Btm Perf - 6889 (- 920) based on offset wells
LOWER CUBERO	6899	-930		<input type="checkbox"/>			TD - 20' below T/CBRL
UPPER CUBERO	6899	-930		<input type="checkbox"/>			
Total Depth	6919	-950		<input type="checkbox"/>		197	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 361 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	6952	-983		<input type="checkbox"/>			
Reference Wells:							

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARTMAN 23 1P

DEVELOPMENT

Reference Type	Well Name	Comments
Production	Hartman 1 23	30N 11W 23 SW SW
Production	Ross Fed 1M	30N 11W 23 NW SE SE
Production	Hartman 23 1F	30N 11W 23 NW SE NW

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

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

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