


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-077092 Unit Reporting Number
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 Houck 9. Well Number 1C
4. Location of Well Surface: Unit J(NWSE), 1871' FSL & 1796' FEL Surface: Latitude: 36.73803° N (NAD83) Longitude: 107.85168° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Unit J, Sec. 11, T29N, R10W API # 30-045- 35268
14. Distance in Miles from Nearest Town 2 Miles from Blanco, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1796'	
16. Acres in Lease 807.84 Acres	 H₂S POTENTIAL EXIST
17. Acres Assigned to Well 313.55 Acres (S/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 846' from BR-Lackey A #5 (PC)	
19. Proposed Depth 6759'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5806' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	<u>March 22, 2011</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 6/2/11

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

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

JUN 22 2011

AV

NMOCD

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35268	² Pool Code 72319771599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 27577 71110	⁵ Property Name HOUCK	⁶ Well Number 1C
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5806'

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
J	11	29N	10W	10	1871'	SOUTH	1796'	EAST	SAN JUAN

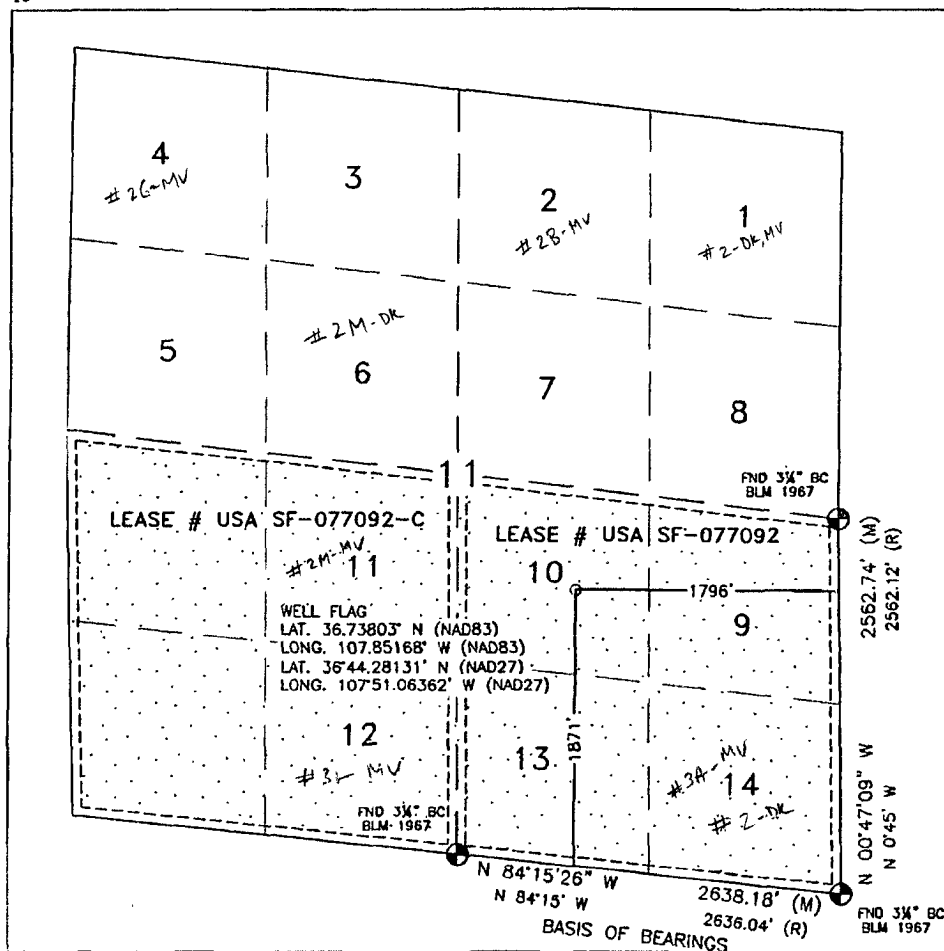
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 313.55 ACRES - S/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

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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 or a compulsory pooling order heretofore entered by the division.

Brandie Blakley
Signature Date

Brandie Blakley 8-30-10

Printed Name

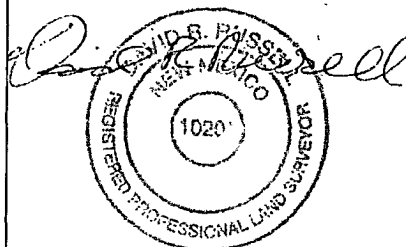
¹⁸ SURVEYOR CERTIFICATION

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.

AUGUST 12, 2010

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

HOUCK 1C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0059				AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 673		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						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Straight Hole							
Latitude: 36.738025	Longitude: -107.851062	X:	Y:	Section: 11		Range: 010W	
Footage X: 1796 FEL	Footage Y: 1871 FSL	Elevation: 5806	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5821 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5621		<input type="checkbox"/>			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1022	4799		<input type="checkbox"/>			
KIRTLAND	1174	4647		<input type="checkbox"/>			
FRUITLAND	1722	4099		<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	2243	3578		<input type="checkbox"/>			
LEWIS	2347	3474		<input type="checkbox"/>			
Intermediate Casing	2447	3374		<input type="checkbox"/>	138		8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 551 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3054	2767		<input type="checkbox"/>			
CHACRA	3246	2575		<input type="checkbox"/>			
UPPER CLIFF HOUSE	3859	1962		<input type="checkbox"/>			Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	3901	1920		<input type="checkbox"/>	467		Gas
MENEFEE	3999	1822		<input type="checkbox"/>			Est. Top Perf - 4199 (1622)
POINT LOOKOUT	4524	1297		<input type="checkbox"/>			
MANCOS	4920	901		<input type="checkbox"/>			
UPPER GALLUP	5751	70		<input type="checkbox"/>			
GREENHORN	6504	-683		<input type="checkbox"/>			
GRANEROS	6563	-742		<input type="checkbox"/>			
TWO WELLS	6627	-806		<input type="checkbox"/>	1810		Gas
PAGUATE	6699	-878		<input type="checkbox"/>			TD - 60' below T/PGTE; Est. Btm Perf - 6719 (- 898) based on offset wells
LOWER CUBERO	6747	-926		<input type="checkbox"/>			
UPPER CUBERO	6747	-926		<input type="checkbox"/>			
Total Depth	6759	-938		<input type="checkbox"/>	188		6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 587 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	6805	-984		<input type="checkbox"/>			

PROJECT PROPOSAL - New Drill / Sidetrack

HOUCK 1C

DEVELOPMENT

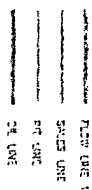
Reference Wells:		
Reference Type	Well Name	Comments
Production	Houck 2	29N 10W 11 SW NE NE
Production	Houck 2M	29N 10W 11 NW SE NW
Production	Houck 2-12	29N 10W 12 SW SW

Logging Program:			
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
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

Comments:



SECRET - C

[illegible]

BURLINGTON RESOURCES OIL & GAS COMPANY LP

HOUCK #1C

1871' FSL & 1796' FEL

LOCATED IN THE NW/4 SE/4 OF SECTION 11,

T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL WEST ON HWY 64 TO THE HWY 575 INTERSECTION.
- 2) TURN RIGHT ONTO HWY 575 AND TRAVEL 1.6 MILES TO THE FLAGGED ACCESS ON THE LEFT.

WELL FLAG LOCATED AT LAT. 36.73803° N, LONG. 107.85168° W (NAD 83).

JOB No.: COPC393
DATE: 08/20/10



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637