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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 28 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

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 NM-043688 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 RCVD JUN 8 '10 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 Atlantic 9. Well Number 5C
4. Location of Well Unit I (NESE), 2568' FNL & 759' FEL Latitude: 36.88385° N (NAD83) Longitude: 107.86356° W		10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 22, T31N, R10W API # 30-045- 35138
14. Distance in Miles from Nearest Town 12 miles / Aztec		12. County San Juan
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 759'	 H ₂ S POTENTIAL EXIST	
16. Acres in Lease 2,066.440		17. Acres Assigned to Well 309.96 E/2 - MV
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1190' from Atlantic 5R - MV/CH		
19. Proposed Depth 7726'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6375' 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>4/28/2010</u>

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

JUN 11 2010

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

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

NMOCB

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

DISTRICT I
1025 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

OIL CONSERVATION DIVISION

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

RECEIVED

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

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

APR 28 2010

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045 - 35138	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 6795	⁵ Property Name ATLANTIC	⁶ Well Number 5 C
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6375'

¹⁰ Surface Location

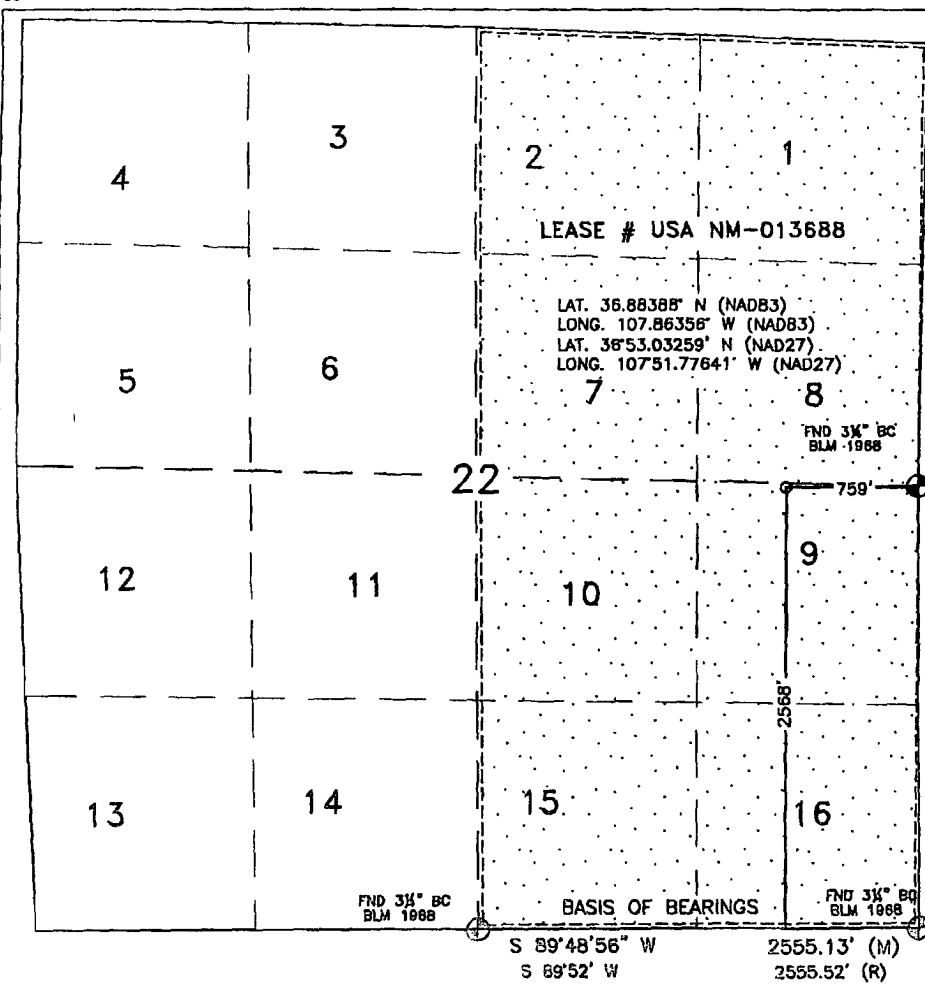
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	22	31N	10W	9	2568'	NORTH	759'	EAST	SAN JUAN

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 309.96 ACRES - E/2					¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.	

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.

Ethel Tally 9/14/09
Signature Date

Ethel Tally
Printed Name

¹⁸ SURVEYOR CERTIFICATION

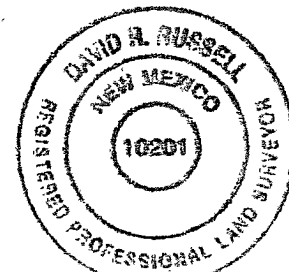
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

AUGUST 31, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

David A. Russell



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ATLANTIC 5C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9322			AFE \$: 480,970.00	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #2		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					
RON	BLANCO MESAVERDE (PRORATED GAS)					
Location: Surface Datum Code: NAD 27 Straight Hole:						
Latitude: 36.880230		Longitude: -107.864990		X:	Y:	Section: 22 Range: 010W
Footage X:		Footage Y:		Elevation:	(FT)	Township: 031N
Tolerance:						
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:
Formation Data: Assume KB = 6390 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6190	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 113cuft. Circulate cement to surface.
NACIMIENTO	325	6065	☐			
OJO ALAMO	1678	4712	☐			
KIRTLAND	1720	4670	☐			
FRUITLAND	2575	3815	☐			Possible Gas
PICTURED CLIFFS	3140	3250	☐			
LEWIS	3260	3130	☐			
Intermediate Casing	3360	3030	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 900 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3855	2535	☐			
CHACRA	4220	2170	☐			
MASSIVE CLIFF HOUSE	4880	1510	☐	208		Gas
MENEFEE	4982	1408	☐			
POINT LOOKOUT	5340	1050	☐			
MANCOS	5698	692	☐			
UPPER GALLUP	6679	-289	☐			
GREENHORN	7397	-1007	☐			
GRANEROS	7443	-1053	☐			
TWO WELLS	7501	-1111	☐	2820		Gas
PAGUATE	7589	-1199	☐			
UPPER CUBERO	7620	-1230	☐			
LOWER CUBERO	7629	-1239	☐			
ENCINAL	7682	-1292	☐			
Total Depth	7726	-1336	☐			6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 594 cuft. Circulate cement a minimum of 100' inside the previous casing string.
Reference Wells:						
Reference Type	Well Name		Comments			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ATLANTIC 5C

DEVELOPMENT

Logging Program:

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

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

Mud log from ~100' above the Greenhorn to TD. Mud loggers will call final TD. Suggested TD is ~44' below the top of Encinal, suggested bottom perf ~20' above the est TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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BURLINGTON RESOURCES OIL & GAS COMPANY LP

ATLANTIC #5 C

2568' FSL 759' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 22,

T31N, R10W, N M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN AZTEC, GO 0.8 MILES TO THE INTERSECTION OF HWY 550 & HWY 516.
- 2) CONTINUE RIGHT ON HWY 550 FOR 4.2 MILES.
- 3) TURN RIGHT ONTO CR 2770 (HART CANYON) & GO 2.8 MILES.
- 4) TURN LEFT & GO 1.2 MILES.
- 5) TURN RIGHT & GO 1.8 MILES.
- 6) TURN RIGHT AND GO 0.3 MILES.
- 7) GO THROUGH WELL LOCATION & GO ANOTHER 0.3 MILES TO FLAGGED ACCESS ON RIGHT SIDE OF ROAD.

WELL FLAG LOCATED AT LAT. 36.88388° N, LONG. 107.86356° W (NAD 83).

