

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078604 Unit Reporting Number Bureau of Land Management Farmington Field Office	
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 Cedar Hill 9. Well Number 2M	
4. Location of Well Surf: Unit D(NWNW), 1150' FNL & 765' FWL Surf: Latitude 36.960514 N Longitude 107.911663 W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 29, T32N, R10W API # 30-045-34911	
14. Distance in Miles from Nearest Town 11.4 mile/Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 765'		
16. Acres in Lease 2,157.850	17. Acres Assigned to Well DK/MV 320.16 (N/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 624' from Scott 20		
19. Proposed Depth 7498'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6032' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>James Gardenhire</u> James Gardenhire (Regulatory Technician)	Date <u>2-9-09</u>	

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

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 "GENERAL REQUIREMENTS".

MAR 19 2009

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised October 12, 2005

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

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

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34911	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 6903	⁵ Property Name CEDAR HILL	⁶ Well Number 2M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6032'

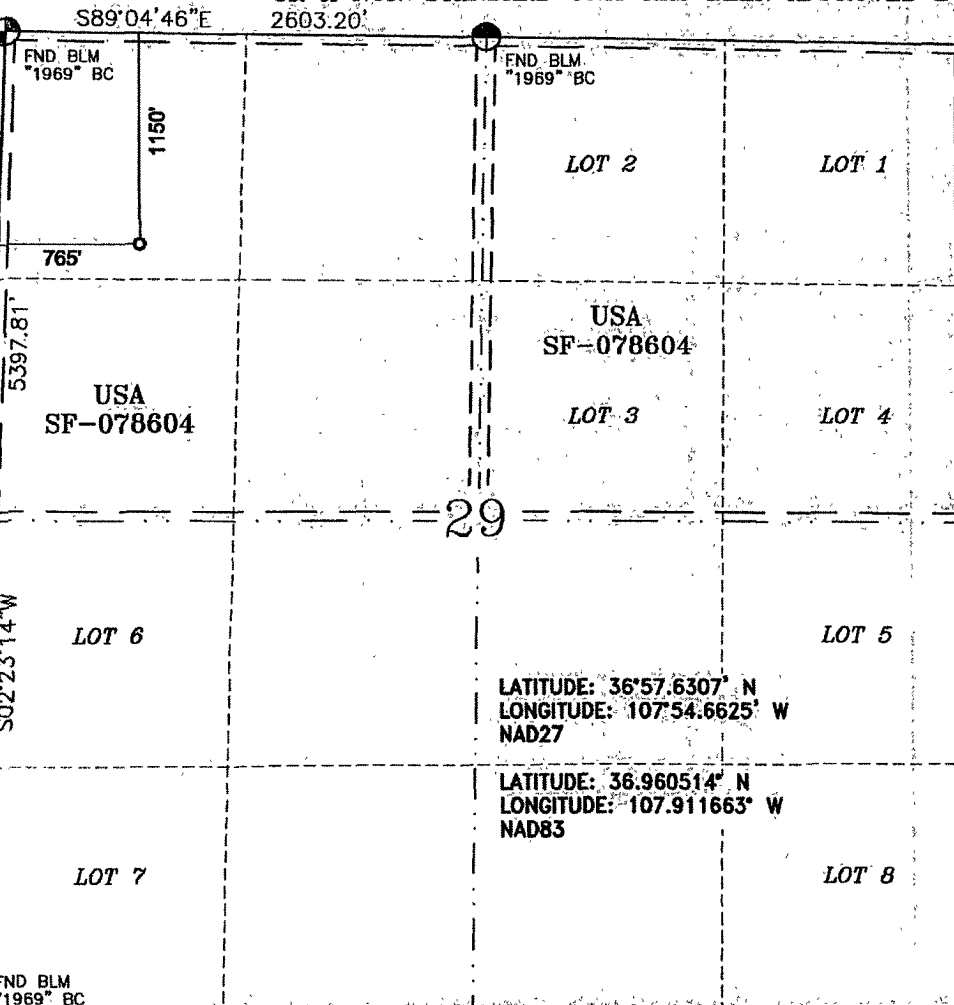
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	29	32-N	10-W		1150'	NORTH	765'	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
D									
¹² Dedicated Acres DK 320.16 ACRES N/2 MV 320.16 ACRES N/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



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature James Gardenhire 11/14/08
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.

Date of Survey 11-7-08
Signature and Seal of Professional Surveyor

GLEN W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

CEDAR HILL 2M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8266		AFE \$:	
Field Name: hBR_SAN JUAN 32-9 UNIT		Rig: Aztec Rig 730		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Johnson, David		Phone: +1 505-324-6169		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proi. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
RON	BLANCO MESAVERDE (PRORATED GAS)				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Surface Datum Code: NAD 27					
Latitude: 36.960512	Longitude: -107.911041	X:	Y:	Section: 29	Range: 010W
Footage X: 765 FWL	Footage Y: 1150 FNL	Elevation: 6032 (FT)	Township: 032N		
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6048 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	5848	☐		
OJO ALAMO	918	5130	☐		
KIRTLAND	978	5070	☐		
FRUITLAND	2248	3800	☐		Possible Gas
PICTURED CLIFFS	2852	3196	☐		
LEWIS	3012	3036	☐		
Intermediate Casing	3112	2936	☐		8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 701 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3541	2507	☐		
CHACRA	4014	2034	☐		
MASSIVE CLIFF HOUSE	4698	1350	☐	150	Gas
MENEFEE	4760	1288	☐		
POINT LOOKOUT	5106	942	☐		
MANCOS	5468	580	☐		
UPPER GALLUP	6440	-392	☐		
GREENHORN	7170	-1122	☐		
GRANEROS	7222	-1174	☐		
TWO WELLS	7294	-1246	☐	3420	Gas
PAGUATE	7366	-1318	☐		
UPPER CUBERO	7386	-1338	☐		
LOWER CUBERO	7396	-1348	☐		Data points sparse and variable so use mudlogger to TD well by rock.
ENCINAL	7458	-1410	☐		TD 40' into Encinal to allow for upper Encinal completion - bottom perf about 15' off TD
Total Depth	7498	-1450	☐		6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 597 cuft. Circulate cement a minimum of 100' inside the previous casing string.
Reference Wells:					
Reference Type	Well Name		Comments		

PROJECT PROPOSAL - New Drill / Sidetrack

CEDAR HILL 2M

DEVELOPMENT

Production	Scott LS 3M	SW29 32-10 NM
Production	Cedar Hill SWD #1	NE29 32-10 NM

Logging Program:

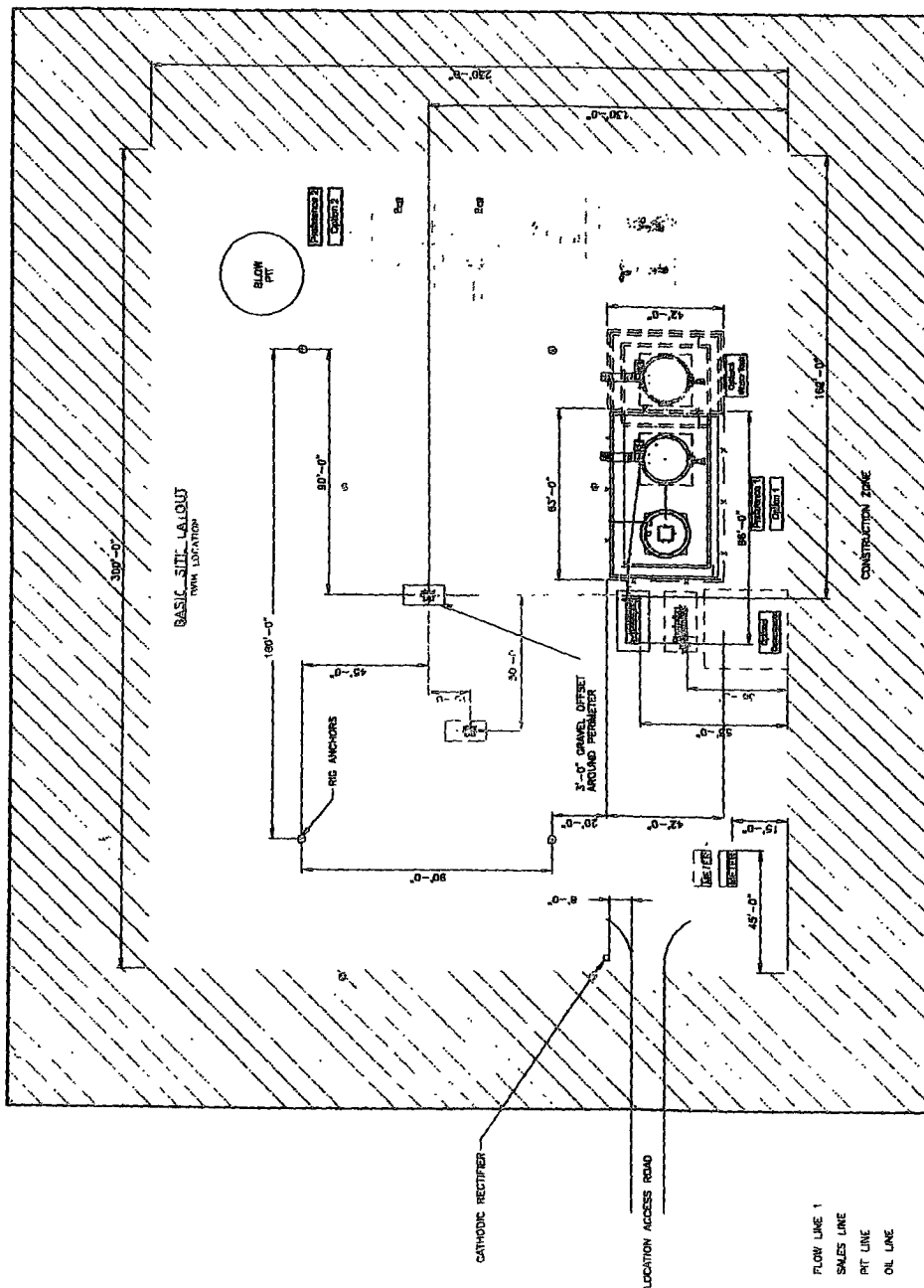
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

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

Mudlog from 100' above Greenhorn to TD - logger will call TD. No OH logs.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SHEET 1 OF 5

DATE: 11/10/2010
 BY: [Signature]
 CHECKED: [Signature]
 APPROVED: [Signature]

REVISIONS				REFERENCE DRAWINGS			
NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	11/10/2010	[Signature]	1	PROCESSING		
2	REVISED FOR CONSTRUCTION	11/10/2010	[Signature]	2	SALES		
3	REVISED FOR PIPING	11/10/2010	[Signature]	3	SALES		
4	REVISED FOR ELECTRICAL	11/10/2010	[Signature]	4	SALES		
5	REVISED FOR CIVIL	11/10/2010	[Signature]	5	SALES		
6	REVISED FOR MECHANICAL	11/10/2010	[Signature]	6	SALES		
7	REVISED FOR ENVIRONMENTAL	11/10/2010	[Signature]	7	SALES		
8	REVISED FOR SAFETY	11/10/2010	[Signature]	8	SALES		
9	REVISED FOR HEALTH	11/10/2010	[Signature]	9	SALES		
10	REVISED FOR WASTE	11/10/2010	[Signature]	10	SALES		

CANOCO PHILLIPS
 HIGH PRESSURE 3 PHASE
 FACILITY DIAGRAM- SITE LAYOUT

SAN JUAN BUSINESS UNIT
 HP 3 PHASE-REV1

DATE: 11/10/2010
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 BY: [Signature]
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 APPROVED: [Signature]

Directions from the Intersection of
Hwy 550 and Hwy 173,
in Aztec, NM
to

Burlington Resources Oil & Gas Company LP
CEDAR HILL 2M
1150' FNL & 765' FWL,
Section 29, T32N, R10W, N.M.P.M., San Juan County,
New Mexico
Latitude: 36° 57' 37.84939" N
Longitude: 107° 54' 41.98744" W
Nad 1983

From the Intersection of Hwy 550 and Hwy 173,
Take Hwy 550 (north) for 9.8 miles to CR 2300,
Turn left (northwesterly) on CR 2300 1.6 miles,
to beginning of new access on right side of road,
proceed (northerly) 270.94' to the newly staked location.