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MAR 18 2009

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RCVD MAY 20 '09
OIL CONS. DIV.
DIST. 3

1a. Type of Work DRILL	5. Lease Number SF-079363 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 San Juan 28-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name
4. Location of Well Surface: Unit J(NWSE), 1900' FSL & 1490' FEL Bottomhole: Unit P (SESE) 745' FSL & 710' FEL Surf: Latitude: 36.601218° N (NAD83) Longitude: 107.414566° W Bottomhole: Latitude: 36.598063° N (NAD83) Longitude: 107.411920° W	9. Well Number 109N 10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 1, T27N, R6W API # 30-039-30715
14. Distance in Miles from Nearest Town 45 miles/Bloomfield	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	13. State NM
16. Acres in Lease 2,560.420	17. Acres Assigned to Well MV/DK 320.00 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 74' from San Juan 28-6 Unit 109M (DK/MV)	
19. Proposed Depth 7713'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6490' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	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
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date: <u>5/19/09</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

Hold C104

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

NMOCD

MAY 21 2009

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

MAR 18 2009

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
Bureau of Land Management
Farmingington Field Office
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30715	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 7462	⁵ Property Name SAN JUAN 28-6 UNIT	⁶ Well Number 109N
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6490

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	1	27-N	6-W		1900	SOUTH	1490	EAST	RIO ARRIBA

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
P	1	27-N	6-W		745	SOUTH	710	EAST	RIO ARRIBA

¹² Dedicated Acres 320.1 (E/2)	¹³ Joint or Infill (2)	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

¹⁶ 	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. Signature: <i>James Gardenhire</i> Printed Name: James Gardenhire Title and E-mail Address: Regulatory Technician Date: 9/16/08
	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: 7/21/08 Signature and Seal of Professional Surveyor: Certificate Number: NM 11393

COMPANY

BURLINGTON RESOURCES

Charge Code

WAN.RFE.PD08.47

WELL NAME

SAN JUAN 28 - 6 # 109 N

DATE

4/16/2008

DUAL WELL

WELL NAME

SAN JUAN 28 - 6 # 109 M

TRIPLE WELL

WELL NAME

COORDINATES**SEC****TNSHP****RANGE****LATITUDE****LONGITUDE**

J 1

27 N

6 W

36 36' 06.3812 " N

107 24' 52.8245 W

COUNTY

RIO ARRIBA

RECTIFIER

60/30

NEEDED

EXISTING

1 PHASE

3 PHASE

SOLARGROUND BED

X

240 V METER POLE480 V METER POLED C CABLES

8

500'

A C CABLES

8

350'

PRIMARY POWER

JEMEZ

DISTANCE TO POWER

ON LOCATION

UNDERGROUNDPUMPJACKWATER PUMP**COMMENTS**

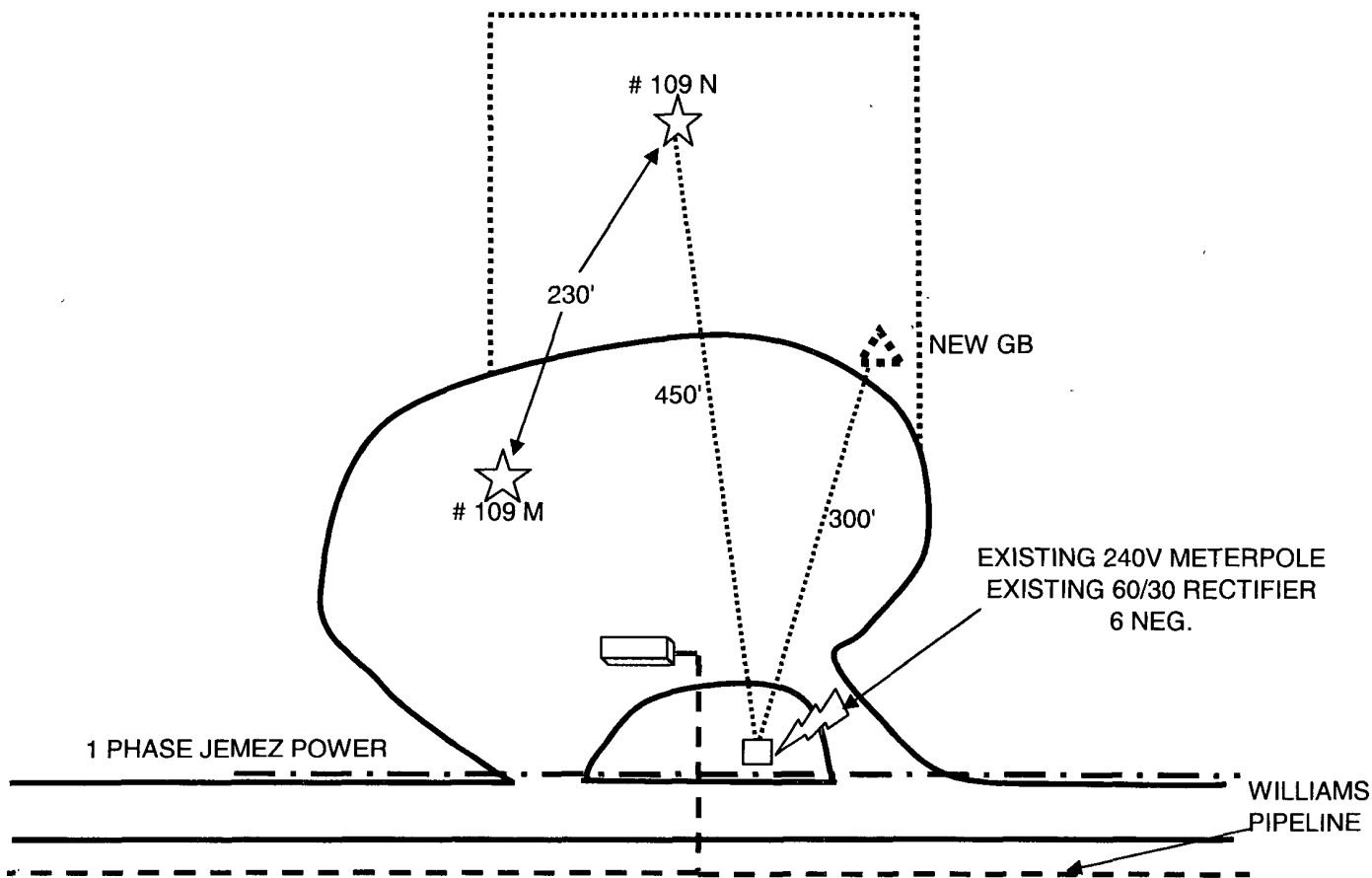
install new GB - install new POS to new GB - install neg to new well from existing

60/30 six neg rectifier. Sandy soil

WELL NAME	SAN JUAN 28 - 6 # 109 N
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INSTALL NEW GROUNDBED
 INSTALL NEGATIVE TO NEW WELL
 INSTALL POSITIVE TO NEW GBED



TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE
RECT 	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE
			FOREIGN PL 		CONOCO PL

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 109N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8059		AFE \$: 1,657,031.06	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27					
Latitude: 36.601209	Longitude: -107.413963	X:	Y:	Section: 01	Range: 006W
Footage X: 1490 FEL	Footage Y: 1900 FSL	Elevation: 6490	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27					
Latitude: 36.598054	Longitude: -107.411317	X:	Y:	Section: 01	Range: 006W
Footage X: 710 FEL	Footage Y: 745 FSL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6513 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6313	<input type="checkbox"/>		
OJO ALAMO	2653	3860	<input type="checkbox"/>		
KIRTLAND	2738	3775	<input type="checkbox"/>		
FRUITLAND	3003	3510	<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	3276	3237	<input type="checkbox"/>		
LEWIS	3421	3092	<input type="checkbox"/>		
CHACRA	4218	2295	<input type="checkbox"/>		
Intermediate Casing	4292	2221	<input type="checkbox"/>		
HUERFANITO BENTONITE	4292	2221	<input type="checkbox"/>		
UPPER CLIFF HOUSE	4818	1695	<input type="checkbox"/>		Gas
MASSIVE CLIFF HOUSE	4928	1585	<input type="checkbox"/>	685	Gas
MENEFEE	5103	1410	<input type="checkbox"/>		
POINT LOOKOUT	5453	1060	<input type="checkbox"/>		
MANCOS	5873	640	<input type="checkbox"/>		
UPPER GALLUP	6636	-123	<input type="checkbox"/>		
GREENHORN	7367	-854	<input type="checkbox"/>		
GRANEROS	7433	-920	<input type="checkbox"/>		
TWO WELLS	7463	-950	<input type="checkbox"/>	2650	Gas
UPPER CUBERO	7588	-1075	<input type="checkbox"/>		
LOWER CUBERO	7628	-1115	<input type="checkbox"/>		
ENCINAL	7713	-1200	<input type="checkbox"/>		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 109N

DEVELOPMENT

Total Depth	7713	-1200	<input type="checkbox"/>	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 468 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments

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
Est bottom perf ~15 above the est TD. Mud log from ~100' above the Greenhorn to TD.	

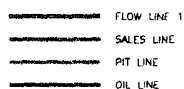
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #109N
Company:	ConocoPhillips SJB	TVD Reference:	RKB1 @ 6505 0ft
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB1 @ 6505 0ft
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #109N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principle Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,806 1	2,645 0	Ojo		0 00		
2,900 3	2,730 0	Kirtland		0 00		
3,193 7	2,995 0	Fruitland		0 00		
3,496 0	3,268 0	Pictured Cliffs		0 00		
3,656 6	3,413 0	Lewis		0 00		
4,077 1	3,805 0	Huerfano Bentonite		0 00		
4,487 5	4,210 0	Chacra		0 00		
5,087 5	4,810 0	Upper Cliffhouse		0 00		
5,197 5	4,920 0	Massive Cliff House		0 00		
5,372 5	5,095 0	Menefee		0 00		
5,722 5	5,445 0	Point Lookout		0 00		
6,142 5	5,865 0	Mancos		0 00		
6,905 5	6,628 0	Upper Gallup		0 00		
7,636 5	7,359 0	Greenhorn		0 00		
7,702 5	7,425 0	Graneros		0 00		
7,732 5	7,455 0	Two Wells		0 00		
7,857 5	7,580 0	Upper Cubero		0 00		
7,897 5	7,620 0	Lower Cubero		0 00		
7,982 5	7,705 0	Encinal		0 00		



SHEET 1 OF 5

\\messag01\pub001\csw\Andres\Regulator, Yerracator Site Layout.dwg, 06/28/2007 - 02:39pm

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT #109N

1900' FSL, 1490' FEL

SECTION 1, T-27-N, R-6-W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.601218° N LONG.: 107.414566° W

ELEV.: 6490 NAVD88

NO NEW ACCESS

DRIVING DIRECTIONS FROM BLOOMFIELD, N.M. AT INTERSECTION OF HWY. 550 AND HWY. 64: TRAVEL EAST ON HWY. 64 FOR 36.4 MILES (TO MILE POST 101.1) TURN RIGHT (BY GOBERNADOR SCHOOL).

- GO 4.5 MILES SOUTH ON C.R. 366 (GENERAL AMERICAN ROAD). TO CROSS ROAD INTERSECTION OF C.R. 495 AND GENERAL AMERICAN ROAD. CONTINUE SOUTH ON MAIN ROAD.
- GO 2.1 MILES TURN RIGHT (WEST) ON WELL ACCESS ROAD.
- GO 1.6 MILES SOUTH AND THEN WESTERLY TO EXISTING ACCESS TO BROG SJ 28-6 #109M WELL LOCATION. NEW WELL IS STAKED AS TWIN ON THIS LOCATION.