

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 USA SF-079050 Unit Reporting Number and 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 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 9. Well Number 147P	
4. Location of Well Surf: Unit C(NENW), 1015' FNL & 2351' FWL BHL: Unit B(NWNE), 350' FNL & 2085' FEL Surf: Latitude: 36.63677 N Longitude: 107.49141 W BHL: Latitude: 36.63858 N Longitude: 107.48856 W	10. Field, Pool, Wildcat Basin DK / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) C Surf: Sec. 29, T28N, R6W B BHL: Sec. 29, T28N, R6W API # 30-039- 30683	
14. Distance in Miles from Nearest Town 38 mile/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1015'		
16. Acres in Lease 520.00	17. Acres Assigned to Well DK/MV 320.00 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' from San Juan 28-6 Unit 156N (DK/MV)		
19. Proposed Depth 7629' TVD 7828' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6378' 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>2-16-09</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

Hold C104

for Directional Survey
and "As Drilled" plat

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 APR 15 2009

This action is subject to technical and procedural review pursuant to 43 CFR 3165.5 and appeal pursuant to 43 CFR 3165.4

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

NMCD

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

Form C-102
Revised October 12, 2005

DISTRICT II
1301 W. 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

OIL CONSERVATION DIVISION

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

Bureau of Land Management
Farmington Field Office

State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039- 30683		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 147 P
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			9 Elevation 6378'

¹⁰ Surface Location

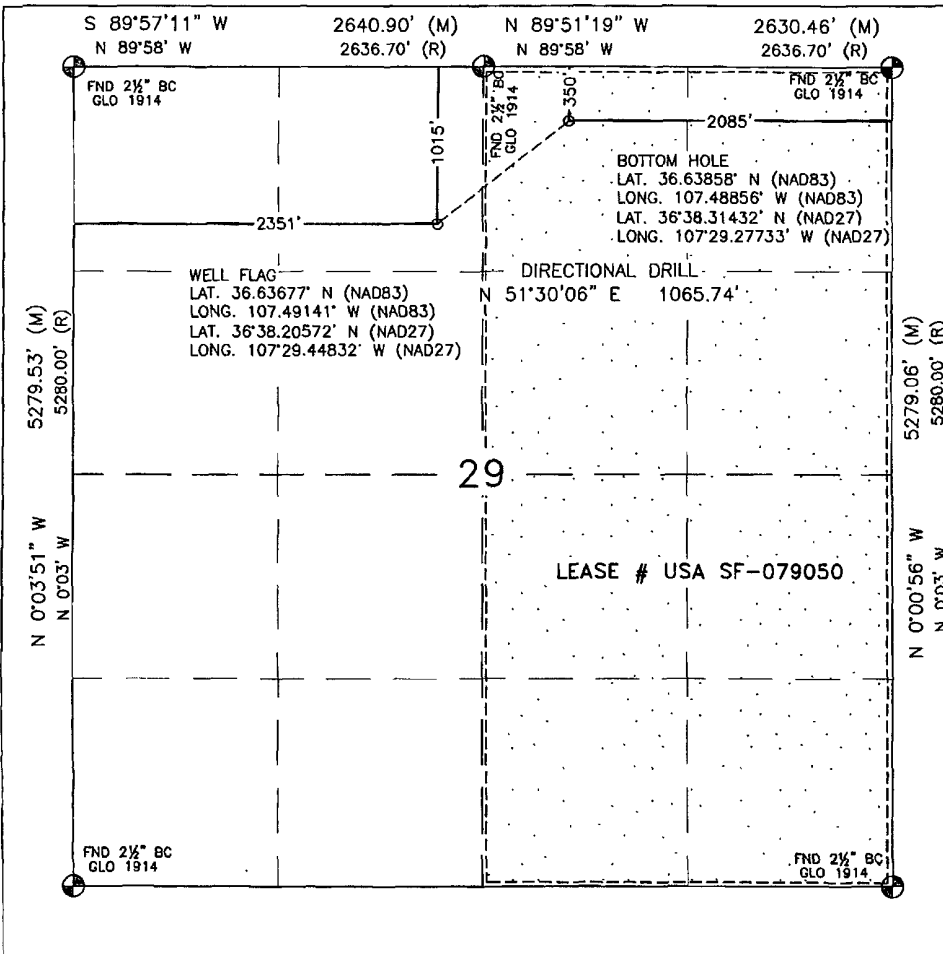
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	28N	6W		1015'	NORTH	2351'	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 29	Township 28N	Range 6W	Lot Idn	Feet from the 350'	North/South line NORTH	Feet from the 2085'	East/West line EAST	County RIO ARRIBA
¹² Dedicated Acres 320.0 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

18



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.

Signature James Pacheco Date 11/24/08

James Gardenhire

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 13, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

Ed R Russell



DAVID RUSSELL

Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 147P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8049				AFE \$:	
Field Name: hBR_SAN JUAN 28-6 UNIT		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		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							
Latitude: 36.636762	Longitude: -107.490805	X:	Y:	Section: 29		Range: 006W	
Footage X: 2351 FWL	Footage Y: 1015 FNL	Elevation: 6378	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.638572	Longitude: -107.487955	X:	Y:	Section: 29		Range: 006W	
Footage X: 2085 FEL	Footage Y: 350 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6394 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6194	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2392	4002	☐				
KIRTLAND	2489	3905	☐				
FRUITLAND	2764	3630	☐			Possible Gas	
PICTURED CLIFFS	3144	3250	☐				
LEWIS	3289	3105	☐				
Intermediate Casing	3700	2694	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 878 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	3760	2634	☐				
CHACRA	4110	2284	☐				
UPPER CLIFF HOUSE	4728	1666	☐			Gas	
MASSIVE CLIFF HOUSE	4832	1562	☐	800		Gas	
MENEFEE	4982	1412	☐				
POINT LOOKOUT	5352	1042	☐				
MANCOS	5851	543	☐				
UPPER GALLUP	6576	-182	☐				
GREENHORN	7311	-917	☐				
GRANEROS	7376	-982	☐				
TWO WELLS	7410	-1016	☐	2400		Gas	
UPPER CUBERO	7526	-1132	☐				
LOWER CUBERO	7560	-1166	☐				
ENCINAL	7629	-1235	☐			TD at top of Encinal with bottom perf about 15' off TD.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 147P

DEVELOPMENT

Total Depth	7629	-1235	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 536 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	28-6 156N & 147	section 29 28-6

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☒ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
No OH logs. Mudlog from 100' above Greenhorn to TD - loggers will call TD.							

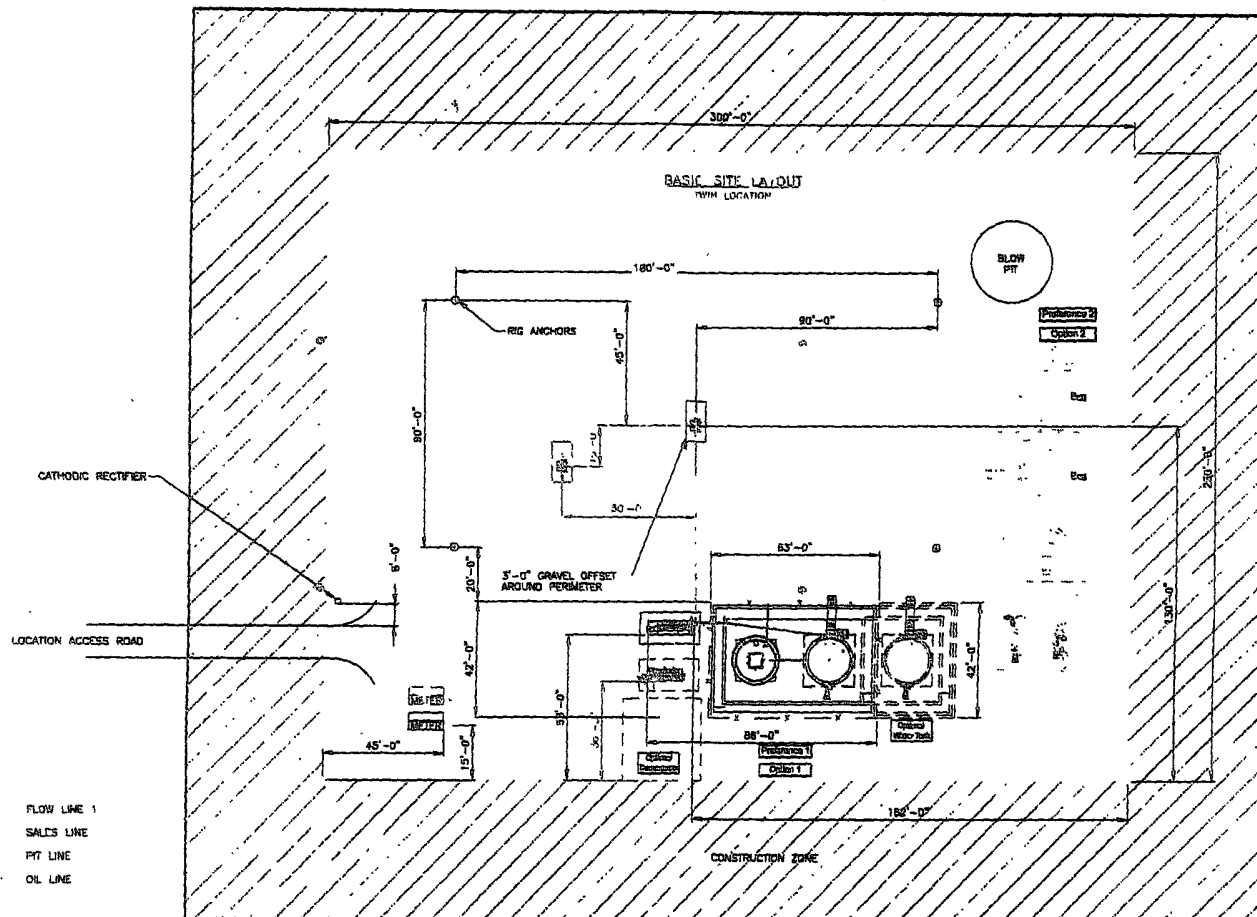
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #147P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6394.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6394.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #147P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,515.6	2,392.0	Ojo		0.00		
2,622.1	2,489.0	Kirtland		0.00		
2,924.1	2,764.0	Fruitland		0.00		
3,334.7	3,144.0	Pictured Cliffs		0.00		
3,484.6	3,289.0	Lewis		0.00		
3,958.8	3,760.0	Huerfano Bentonite		0.00		
4,308.8	4,110.0	Chacra		0.00		
4,926.8	4,728.0	Upper Cliffhouse		0.00		
5,030.8	4,832.0	Mass Cliffhouse		0.00		
5,180.8	4,982.0	Menefee		0.00		
5,550.8	5,352.0	Point Lookout		0.00		
6,049.8	5,851.0	Mancos		0.00		
6,774.8	6,576.0	Upper Gallup		0.00		
7,509.8	7,311.0	Greenhorn		0.00		
7,574.8	7,376.0	Graneros		0.00		
7,608.8	7,410.0	Two Wells		0.00		
7,724.8	7,526.0	Upper Cubero		0.00		
7,758.8	7,560.0	Lower Cubero		0.00		
7,827.8	7,629.0	Encinal		0.00		



SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE COVERED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCOPhillips	CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
NO.	DESCRIPTION	DATE	BY	CHKD	APPD	REV	DATE	BY	CHKD	NO.	DESCRIPTION		CLIENT APPR.	APPR. DATE	ISSUE NO.
1	DESIGN									1		SAN JUAN BUSINESS UNIT	CLIENT APPR.	APPR. DATE	1 OF 5
2	REVISION									2			REVISOR	REVISION DATE	
3	REVISION									3					
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HP3PHASE-REV1

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT #147 P
1015' FNL & 2351' FWL
LOCATED IN THE NE/4 NW/4 OF SECTION 29, ➡
T28N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLANCO POST OFFICE HEAD EAST 22.7 MILES TO 4 MILE TURN OFF.
- 2) GO SOUTHEAST 3.4 MILES TO "Y" INTERSECTION.
- 3) TURN RIGHT & GO 2.1 MILES TO CROWS FOOT.
- 4) TURN RIGHT & GO 5.9 MILES NORTHERLY ALONG RIDGE ROAD.
- 5) TURN LEFT & GO 2.8 MILES.
- 6) TURN LEFT AT LAUNCHER & GO 1 MILE.
- 7) TURN LEFT INTO EXISTING LOCATION WHERE IT IS TWINNED.

WELL FLAG LOCATED AT LAT. 36.63677°N, LONG. 107.49141°W (NAD 83).

JOB No.: COPC160
DATE: 09/02/08



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