

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 17 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management

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: <u>SF-079383</u> 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 30-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name RCVD AUG 30 '10 OIL CONS. DIV. DIST. 3
4. Location of Well Surf: Unit J (NWSE), 1520' FSL & 1675' FEL BHL: Unit P (SESE), 710' FSL & 710' FEL Surf: Latitude: 36.780524 N Longitude: 107.554977 W BHL: Latitude: 36.778284 N Longitude: 107.551664 W		10. Field, Pool, Wildcat Basin DK / Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 27, T30N, R7W BHL: Sec. 27, T30N, R7W API # 30-039- <u>30685</u>
14. Distance in Miles from Nearest Town 21 mile/Blanco		12. County Rio Arriba
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1520'		
16. Acres in Lease 2,240.000		17. Acres Assigned to Well DK/MV 320.00 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from San Juan 30-6 Unit 97A (MV)		
19. Proposed Depth 8273'		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6869' 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)		<u>2-16-09</u> Date

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 3165.5 and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and "As Drilled" plat

SEP 14 2010

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

RECEIVED

FEB 17 2009

Form C-102

Revised October 12, 2005

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 30-039- <u>361085</u>	² Pool Code 71599 / 72319	³ Pool Name Blanco
⁴ Property Code 7469	⁵ Property Name SAN JUAN 30-6 UNIT	⁶ Well Number 97B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6869
Basin DAKOTA / MESA VERDE		

¹⁰ Surface Location

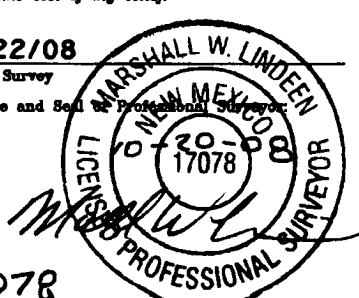
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	27	30 N	7 W		1520	SOUTH	1675	EAST	RIO ARRIBA

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	27	30 N	7 W		710	SOUTH	710	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 (E/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

¹⁶ N 89°54' W 2640' (R) N 0°02' W 2636.88' (M) N 0°13'24" W S 89°50'44" E	○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION	5282.64' (R) USA SF-079383	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 released 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. <u>James Gardenhire</u> 10/29/08 Signature Date James Gardenhire Printed Name
	SECTION 27		
	NAD 83 LAT: 36.780524° N LONG: 107.554977° W NAD 27 LAT: 36°46.8311' N LONG: 107°33.2621' W	1675' 710' 5295.37' (M)	
	NAD 83 LAT: 36.778284° N LONG: 107.551664° W NAD 27 LAT: 36°46.6967' N LONG: 107°33.0634' W	2618.59' (M) N 0°33'06" E	
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. 9/22/08 Date of Survey Signature and Seal of Professional Surveyor  17078 Certificate Number			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 97B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8343				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Datum Code: NAD 27							
Latitude: 36.780518	Longitude: -107.554370	X:	Y:	Section: 27		Range: 007W	
Footage X: 1675 FEL	Footage Y: 1520 FSL	Elevation: 6869	(FT)	Township: 030N			
Tolerance:							
Location: Datum Code: NAD 27							
Latitude: 36.778278	Longitude: -107.551057	X:	Y:	Section: 27		Range: 007W	
Footage X: 710 FEL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6884		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	203	6681	☐			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	2848	4036	☐				
KIRTLAND	2951	3933	☐				
FRUITLAND	3328	3556	☐			Possible Gas	
PICTURED CLIFFS	3776	3108	☐				
LEWIS	3890	2994	☐				
Intermediate Casing	4100	2784	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 979 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4464	2420	☐				
CHACRA	4786	2098	☐				
MASSIVE CLIFF HOUSE	5553	1331	☐	346		Gas	
MENEFEE	5630	1254	☐				
POINT LOOKOUT	5970	914	☐				
MANCOS	6312	572	☐				
UPPER GALLUP	7098	-214	☐				
GREENHORN	7959	-1075	☐				
GRANEROS	8011	-1127	☐				
TWO WELLS	8083	-1199	☐	3444		Gas	
UPPER CUBERO	8158	-1274	☐				
LOWER CUBERO	8191	-1307	☐				
ENCINAL	8263	-1379	☐				
Total Depth	8273	-1389	☐			6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 568 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 97B

DEVELOPMENT

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Est bottom perf ~20' above the est TD. Mudlog from ~100' above the Greenhorn to TD. Mudloggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #97B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6884.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6884.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	Grid
Well:	SJ 30-6 #97B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,500.0	0.00	0.00	7,253.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,353.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,453.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,553.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,653.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,753.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,853.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	7,953.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,205.9	0.00	0.00	7,959.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Greenhorn										
8,257.9	0.00	0.00	8,011.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Graneros										
8,300.0	0.00	0.00	8,053.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,329.9	0.00	0.00	8,083.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Two Wells										
8,400.0	0.00	0.00	8,153.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,404.9	0.00	0.00	8,158.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Upper Cubero										
8,437.9	0.00	0.00	8,191.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Lower Cubero										
8,500.0	0.00	0.00	8,253.1	-812.7	972.3	1,267.2	0.00	0.00	0.00	
8,509.9	0.00	0.00	8,263.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Encinal										
8,519.9	0.00	0.00	8,273.0	-812.7	972.3	1,267.2	0.00	0.00	0.00	
Prod - SJ 30-6 #97B PCP										

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude
SJ 30-6 #97B ICP	- plan hits target	0.00	0.00	4,100.0	-812.7	972.3	640,896.03	177,597.53	36° 46' 41 802 N
- Point									107° 33' 3 804 W
SJ 30-6 #97B PCP	- plan hits target	0.00	0.00	8,273.0	-812.7	972.3	640,896.03	177,597.53	36° 46' 41 802 N
- Point									107° 33' 3 804 W

ConocoPhillips or its affiliates

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Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6884.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6884.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	Grid
Well:	SJ 30-6 #97B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,022.9	2,848.0	Ojo Alamo		0.00		
3,136.5	2,951.0	Kirtland		0.00		
3,552.1	3,328.0	Fruitland		0.00		
4,021.3	3,776.0	Pictured Cliffs		0.00		
4,136.4	3,890.0	Lewis		0.00		
4,710.9	4,464.0	Huerf. Bent.		0.00		
5,032.9	4,786.0	Chacra		0.00		
5,799.9	5,553.0	Massive Cliffhouse		0.00		
5,876.9	5,630.0	Menefee		0.00		
6,216.9	5,970.0	Pt. Lookout		0.00		
6,558.9	6,312.0	Mancos Shale		0.00		
7,344.9	7,098.0	Gallup		0.00		
8,205.9	7,959.0	Greenhorn		0.00		
8,257.9	8,011.0	Graneros		0.00		
8,329.9	8,083.0	Two Wells		0.00		
8,404.9	8,158.0	Upper Cubero		0.00		
8,437.9	8,191.0	Lower Cubero		0.00		
8,509.9	8,263.0	Encinal		0.00		



SEE SHEET 3 & 4 FOR PILING DETAILS
TALL (UNDERGROUND) PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

[illegible]

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 30-6 UNIT 97B

1520' FSL & 1675' FEL (SURFACE LOCATION)

710' FSL & 710' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.780524° N

LONGITUDE: 107.554977° W

NAD 83

SECTION 27, T-30-N, R-7-W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64 AND NEW MEXICO STATE
HIGHWAY 539 AT NAVAJO CITY, NEW MEXICO

TRAVEL NORTHWESTERLY ON NEW MEXICO HIGHWAY 539 FOR 2.2 MILES.

TURN RIGHT AFTER CROSSING GOVERNADOR WASH AND
TRAVEL NORTHEASTERLY 2.2 MILES TOWARDS SMITH PASS,
CONTINUE TOWARDS SMITH PASS 1.0 MILE.

AT THE SUMMIT OF SMITH PASS, STAY TO THE RIGHT;
ASCENDING FRANCIS MESA.

TRAVEL SOUTHEASTERLY 1.5 MILES.

TURN LEFT AND TRAVEL NORTHERLY APPROXIMATELY 300'
TO PROPOSED SAN JUAN 30-6 UNIT 97B WELL LOCATION.