

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 31 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number USA NM-0558139 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD MAR 17 '11	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name 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 Creek 9. Well Number 1B	
4. Location of Well Surface: Unit P(SESE), 808' FSL & 821' FEL Bottomhole: Unit O(SWSE), 765' FSL & 1930' FEL Surface: Latitude: 36.7495522° N (NAD83) Longitude: 107.3564874° W Bottomhole: Latitude: 36.7494415° N (NAD83) Longitude: 107.3602731° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 4, T29N, R5W 30-039-31019	
14. Distance in Miles from Nearest Town 36 Miles from Blanco, NM	12. County San Juan Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 765'		
16. Acres in Lease 322.080	17. Acres Assigned to Well 322.08 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from (BR) Creek 1A (MV/PC)		
19. Proposed Depth 8035' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6633' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". Hold C104	
23. Proposed Casing and Cementing Program See Operations Plan attached	for Directional Survey and "As Drilled" plat	
24. Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Technician)	1-28-11 Date	

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

MAR 30 2011

NMOC

BLM 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

RECEIVED

JAN 31 2011

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

Form C-102
Revised October 15, 2009
Bureau Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039 - 3019	² Pool Code 71599/72319	³ Pool Name Blanco
⁴ Property Code 18504	⁵ Property Name CREEK	⁶ Well Number IB
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6633

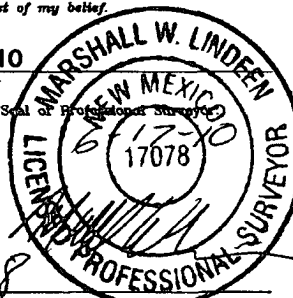
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	29 N	5 W		808	SOUTH	821	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
O	4	29 N	5 W		765	SOUTH	1930	EAST	RIO ARriba
¹² Dedicated Acres 322.08 (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

¹⁶ N 89°44'31" E 2638.49' LOT 4 (40.74) 2663.38'	LOT 3 (40.88) 2638.49'	N 89°35'34" E 2628.13' LOT 2 (40.98) 2662.30'	LOT 1 (41.10) 2662.30'	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. Brandie Blakley 6-28-10 Signature _____ Date _____ Brandie Blakley 6-28-10 Printed Name _____
S 0°28'43" E 2638.68'	NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.	O = SURFACE LOCATION ● = BOTTOM HOLE LOCATION SECTION 4 US NM-0558139	SURFACE LAT: 36.7495522° N LONG: 107.3564874° W NAD 83 LAT: 36°44.97270' N LONG: 107°21.35314' W NAD 27	
S 0°16'56" E 2623.38' LAT: 36.7494415° N LONG: 107.3602731° W NAD 83 LAT: 36°44.96606' N LONG: 107°21.58028' W NAD 27 BHL	S 87°38'05" W-1109.83' 1930' 765'	N 89°50'26" E 2655.89'	821' 808'	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. 05/17/10 Date of Survey _____ Signature and Seal of Professional Surveyor  17078 Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CREEK 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0040		AFE \$: 861,590.41							
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA						
Geologist:		Phone:		Geophysicist:							
Geoscientist:		Phone:		Prod. Engineer:							
Res. Engineer:		Phone:		Proj. Field Lead:							
Primary Objective (Zones): <table border="1"> <thead> <tr> <th>Zone</th> <th>Zone Name</th> </tr> </thead> <tbody> <tr> <td>RON</td> <td>BLANCO MESAVERDE (PRORATED GAS)</td> </tr> <tr> <td>FRR</td> <td>BASIN DAKOTA (PRORATED GAS)</td> </tr> </tbody> </table>						Zone	Zone Name	RON	BLANCO MESAVERDE (PRORATED GAS)	FRR	BASIN DAKOTA (PRORATED GAS)
Zone	Zone Name										
RON	BLANCO MESAVERDE (PRORATED GAS)										
FRR	BASIN DAKOTA (PRORATED GAS)										
Location: Surface Datum Code: NAD 27 Directional											
Latitude: 36.749545	Longitude: -107.355886	X:	Y:	Section: 04	Range: 005W						
Footage X: 821 FEL	Footage Y: 808 FSL	Elevation: 6633	(FT)	Township: 029N							
Tolerance:											
Location: Bottom Hole Datum Code: NAD 27 Directional											
Latitude: 36.749434	Longitude: -107.359671	X:	Y:	Section: 04	Range: 005W						
Footage X: 1930 FEL	Footage Y: 765 FSL	Elevation:	(FT)	Township: 029N							
Tolerance:											
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:							
Formation Data: Assume KB = 6648		Units = FT									
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)						
Surface Casing	230	6418		☐	12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.						
NACIMIENTO	1510	5138		☐							
OJO ALAMO	2754	3894		☐							
KIRTLAND	2914	3734		☐							
FRUITLAND	2998	3650		☐	Possible Gas						
PICTURED CLIFFS	3563	3085		☐							
LEWIS	3672	2976		☐							
Intermediate Casing	3772	2876		☐	122 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 907 cuft. Circulate cement to surface.						
HUERFANITO BENTONITE	4320	2328		☐							
CHACRA	4610	2038		☐	Est. Top Perf - 4627 (2036)						
UPPER CLIFF HOUSE	5352	1296		☐	Gas; Cliff House is dry						
MASSIVE CLIFF HOUSE	5467	1181		☐	712 Gas						
MENEFEE	5502	1146		☐							
POINT LOOKOUT	5764	884		☐							
MANCOS	6139	509		☐							
UPPER GALLUP	7016	-368		☐							
GREENHORN	7764	-1116		☐							
GRANEROS	7818	-1170		☐							
TWO WELLS	7918	-1270		☐	3350 Gas						
PAGUATE	7928	-1280		☐							
UPPER CUBERO	7952	-1304		☐							

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CREEK 1B

DEVELOPMENT

LOWER CUBERO	7980	-1332	☐	TD - 55' below T/CBRL; Est. Btm Perf - 8030 (- 1367) based on offset wells
Total Depth	8035	-1387	☐	212 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 580 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8040	-1392	☐	

Reference Wells:

Reference Type	Well Name	Comments
Production	Creek 1	29N 5W 4 NE SW NE
Production	SJ 30-5 Unit 102	30N 5W 34 SE NE SW
Production	SJ 29-5 Unit 23B	29N 5W 16 SW NW NE
Production	La Jara 1	29N 5W 10 NE SW SW

Logging Program:

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

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

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call 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 Creek #1B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6648.0ft (AWS 920)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6648.0ft (AWS 920)
Site:	Other Named Wells	North Reference:	True
Well:	Creek #1B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	Other Named Wells		
Site Position:		Northing:	2,108,178.26 ft
From:	Lat/Long	Easting:	643,887.63 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well:	Creek #1B, Directional "S" Curve Short, Lewis Included		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 44' 58.362 N
		Longitude:	107° 21' 21.188 W
		Ground Level:	6,633.0 ft

Wellbore:	Principal Wellbore		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	1/21/2011	9.76
			Dip Angle
			63.59
			Field Strength
			50,829

Design:	Plan #1		
Audit Notes:			
Version:	1	Phase:	PROTOTYPE
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			267.92

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,380.3	31.81	267.92	1,326.6	-10.4	-286.6	3.00	3.00	0.00	267.92	
2,397.8	31.81	267.92	2,191.4	-29.8	-822.6	0.00	0.00	0.00	0.00	
3,458.1	0.00	0.00	3,198.0	-40.2	-1,109.2	3.00	-3.00	0.00	180.00	Creek #1B - VACP
4,032.1	0.00	0.00	3,772.0	-40.2	-1,109.2	0.00	0.00	0.00	0.00	Creek #1B - ICP
8,295.1	0.00	0.00	8,035.0	-40.2	-1,109.2	0.00	0.00	0.00	0.00	Creek #1B - PCP

ConocoPhillips or its affiliates

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Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6648.0ft (AWS 920)
Site:	Other Named Wells	North Reference:	True
Well:	Creek #1B	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
230.0	0.00	0.00	230.0	0.0	0.0	0.0	0.00	0.00	0.00	
Surface										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	2.40	267.92	400.0	-0.1	-1.7	1.7	3.00	3.00	0.00	
500.0	5.40	267.92	499.7	-0.3	-8.5	8.5	3.00	3.00	0.00	
600.0	8.40	267.92	599.0	-0.7	-20.5	20.5	3.00	3.00	0.00	
700.0	11.40	267.92	697.5	-1.4	-37.7	37.7	3.00	3.00	0.00	
800.0	14.40	267.92	795.0	-2.2	-60.0	60.0	3.00	3.00	0.00	
900.0	17.40	267.92	891.1	-3.2	-87.3	87.4	3.00	3.00	0.00	
1,000.0	20.40	267.92	985.7	-4.3	-119.7	119.8	3.00	3.00	0.00	
1,100.0	23.40	267.92	1,078.5	-5.7	-157.0	157.1	3.00	3.00	0.00	
1,200.0	26.40	267.92	1,169.2	-7.2	-199.0	199.2	3.00	3.00	0.00	
1,300.0	29.40	267.92	1,257.6	-8.9	-245.8	246.0	3.00	3.00	0.00	
1,380.3	31.81	267.92	1,326.6	-10.4	-286.6	286.8	3.00	3.00	0.00	
1,400.0	31.81	267.92	1,343.4	-10.8	-297.0	297.2	0.00	0.00	0.00	
1,500.0	31.81	267.92	1,428.4	-12.7	-349.7	349.9	0.00	0.00	0.00	
1,596.0	31.81	267.92	1,510.0	-14.5	-400.3	400.5	0.00	0.00	0.00	
Nacimiento										
1,600.0	31.81	267.92	1,513.4	-14.6	-402.4	402.6	0.00	0.00	0.00	
1,700.0	31.81	267.92	1,598.4	-16.5	-455.0	455.3	0.00	0.00	0.00	
1,800.0	31.81	267.92	1,683.3	-18.4	-507.7	508.1	0.00	0.00	0.00	
1,900.0	31.81	267.92	1,768.3	-20.3	-560.4	560.8	0.00	0.00	0.00	
2,000.0	31.81	267.92	1,853.3	-22.2	-613.1	613.5	0.00	0.00	0.00	
2,100.0	31.81	267.92	1,938.3	-24.1	-665.7	666.2	0.00	0.00	0.00	
2,200.0	31.81	267.92	2,023.3	-26.1	-718.4	718.9	0.00	0.00	0.00	
2,300.0	31.81	267.92	2,108.2	-28.0	-771.1	771.6	0.00	0.00	0.00	
2,397.8	31.81	267.92	2,191.4	-29.8	-822.6	823.1	0.00	0.00	0.00	
2,400.0	31.74	267.92	2,193.2	-29.9	-823.8	824.3	3.00	-3.00	0.00	
2,500.0	28.74	267.92	2,279.6	-31.7	-874.1	874.7	3.00	-3.00	0.00	
2,600.0	25.74	267.92	2,368.5	-33.4	-919.8	920.4	3.00	-3.00	0.00	
2,700.0	22.74	267.92	2,459.7	-34.8	-960.8	961.5	3.00	-3.00	0.00	
2,800.0	19.74	267.92	2,552.9	-36.2	-997.0	997.7	3.00	-3.00	0.00	
2,900.0	16.74	267.92	2,647.8	-37.3	-1,028.3	1,029.0	3.00	-3.00	0.00	
3,000.0	13.74	267.92	2,744.3	-38.2	-1,054.6	1,055.3	3.00	-3.00	0.00	
3,010.0	13.44	267.92	2,754.0	-38.3	-1,056.9	1,057.6	3.00	-3.00	0.00	
Ojo Alamo										
3,100.0	10.74	267.92	2,842.0	-39.0	-1,075.8	1,076.5	3.00	-3.00	0.00	
3,173.0	8.55	267.92	2,914.0	-39.5	-1,088.0	1,088.7	3.00	-3.00	0.00	
Kirtland										
3,200.0	7.74	267.92	2,940.7	-39.6	-1,091.8	1,092.6	3.00	-3.00	0.00	
3,257.7	6.01	267.92	2,998.0	-39.8	-1,098.7	1,099.5	3.00	-3.00	0.00	
Fruitland										
3,300.0	4.74	267.92	3,040.1	-40.0	-1,102.7	1,103.4	3.00	-3.00	0.00	
3,400.0	1.74	267.92	3,139.9	-40.2	-1,108.3	1,109.1	3.00	-3.00	0.00	
3,458.1	0.00	0.00	3,198.0	-40.2	-1,109.2	1,110.0	3.00	-3.00	0.00	
Creek #1B - VACP										
3,500.0	0.00	0.00	3,239.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,339.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,439.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Creek #1B
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well Creek #1B
 TVD Reference: RKB @ 6648.0ft (AWS 920)
 MD Reference: RKB @ 6648.0ft (AWS 920)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
3,800.0	0.00	0.00	3,539.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
3,823.1	0.00	0.00	3,563.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Pictured Cliffs									
3,900.0	0.00	0.00	3,639.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
3,932.1	0.00	0.00	3,672.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Lewis									
4,000.0	0.00	0.00	3,739.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,032.1	0.00	0.00	3,772.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Intermediate - Creek #1B - ICP									
4,100.0	0.00	0.00	3,839.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,200.0	0.00	0.00	3,939.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,039.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,139.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,239.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,580.1	0.00	0.00	4,320.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Huerfano Bentonite									
4,600.0	0.00	0.00	4,339.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,439.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,539.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
4,870.1	0.00	0.00	4,610.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Chacra									
4,900.0	0.00	0.00	4,639.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,739.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,100.0	0.00	0.00	4,839.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,200.0	0.00	0.00	4,939.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,039.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,139.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,239.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,339.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,612.1	0.00	0.00	5,352.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Upper Cliff House									
5,700.0	0.00	0.00	5,439.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,727.1	0.00	0.00	5,467.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Massive Cliff House									
5,762.1	0.00	0.00	5,502.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Menefee									
5,800.0	0.00	0.00	5,539.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,639.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,739.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,024.1	0.00	0.00	5,764.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Point Lookout									
6,100.0	0.00	0.00	5,839.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,200.0	0.00	0.00	5,939.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,039.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,399.1	0.00	0.00	6,139.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
Mancos									
6,400.0	0.00	0.00	6,139.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,239.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,339.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,439.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,539.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,639.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Creek #1B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6648.0ft (AWS 920)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6648.0ft (AWS 920)
Site:	Other Named Wells	North Reference:	True
Well:	Creek #1B	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)	
7,000.0	0.00	0.00	6,739.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,839.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,939.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,276.1	0.00	0.00	7,016.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Upper Gallup										
7,300.0	0.00	0.00	7,039.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,139.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,239.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,339.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,439.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,539.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,639.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,739.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
8,024.1	0.00	0.00	7,764.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Greenhorn										
8,078.1	0.00	0.00	7,818.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Graneros										
8,100.0	0.00	0.00	7,839.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
8,178.1	0.00	0.00	7,918.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Two Wells										
8,188.1	0.00	0.00	7,928.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Paguete										
8,200.0	0.00	0.00	7,939.9	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
8,212.1	0.00	0.00	7,952.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Upper Cubero										
8,240.1	0.00	0.00	7,980.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Lower Cubero										
8,295.1	0.00	0.00	8,035.0	-40.2	-1,109.2	1,110.0	0.00	0.00	0.00	
Total Depth - Production - Creek #1B - PCP										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Creek #1B - ICP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	3,772.0	-40.2	-1,109.2	2,092,393.85	638,769.47	36° 44' 57.964 N	107° 21' 34.817 W
Creek #1B - PCP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	8,035.0	-40.2	-1,109.2	2,092,393.85	638,769.47	36° 44' 57.964 N	107° 21' 34.817 W
Creek #1B - VACP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	3,198.0	-40.2	-1,109.2	2,092,393.85	638,769.47	36° 44' 57.964 N	107° 21' 34.817 W

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Creek #1B
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well Creek #1B
 TVD Reference: RKB @ 6648.0ft (AWS 920)
 MD Reference: RKB @ 6648.0ft (AWS 920)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
230.0	230.0	Surface	9-5/8	12-1/4	
4,032.1	3,772.0	Intermediate	7	8-3/4	
8,295.1	8,035.0	Production	4-1/2	6-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,024.1	7,764.0	Greenhorn		0.00		
8,188.1	7,928.0	Paguate		0.00		
8,078.1	7,818.0	Graneros		0.00		
6,024.1	5,764.0	Point Lookout		0.00		
3,932.1	3,672.0	Lewis		0.00		
4,870.1	4,610.0	Chacra		0.00		
4,580.1	4,320.0	Huerfano Bentonite		0.00		
1,596.0	1,510.0	Nacimiento		0.00		
8,240.1	7,980.0	Lower Cubero		0.00		
7,276.1	7,016.0	Upper Gallup		0.00		
3,010.0	2,754.0	Ojo Alamo		0.00		
3,823.1	3,563.0	Pictured Cliffs		0.00		
8,212.1	7,952.0	Upper Cubero		0.00		
5,727.1	5,467.0	Massive Cliff House		0.00		
5,762.1	5,502.0	Menefee		0.00		
6,399.1	6,139.0	Mancos		0.00		
8,178.1	7,918.0	Two Wells		0.00		
5,612.1	5,352.0	Upper Cliff House		0.00		
8,295.1	8,035.0	Total Depth		0.00		
3,173.0	2,914.0	Kirtland		0.00		
3,257.7	2,998.0	Fruitland		0.00		

REFERENCE INFORMATION

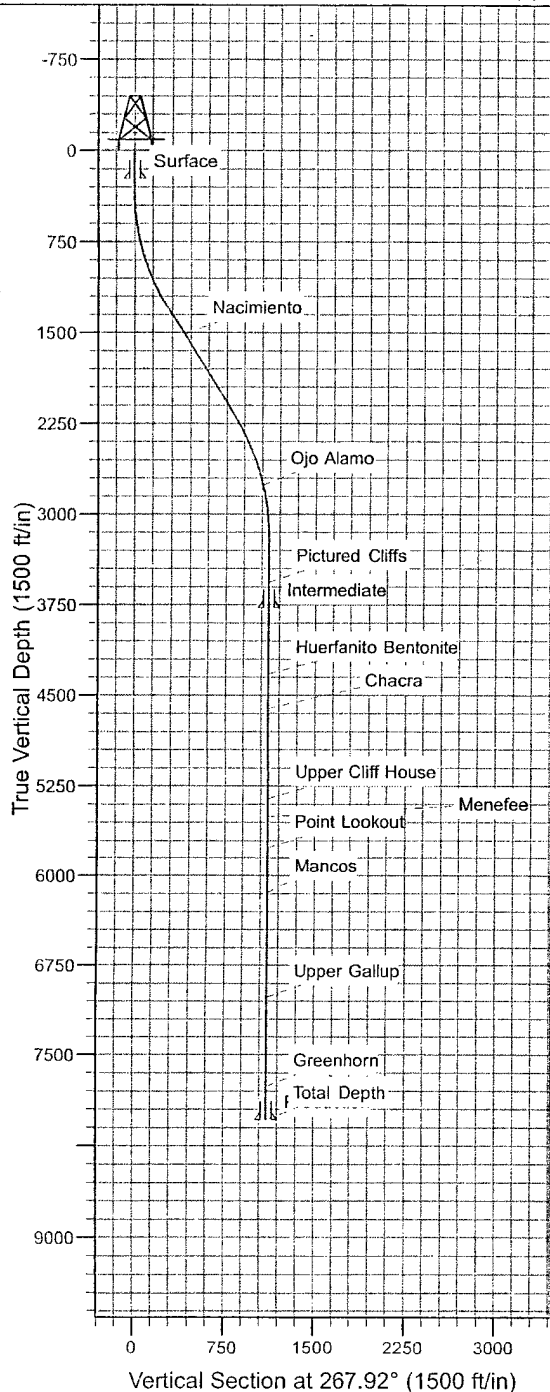
RKB @ 6648.0ft (AWS 920)
Ground Elevation 6633.0
Reference Lat: 36° 44' 58.362 N
Reference Long: 107° 21' 21.188 W

Project: San Juan Basin - New Mexico West V
Site: Other Named Wells
Well: Creek #1B
Wellbore: Principal Wellbore
Design: Plan #1



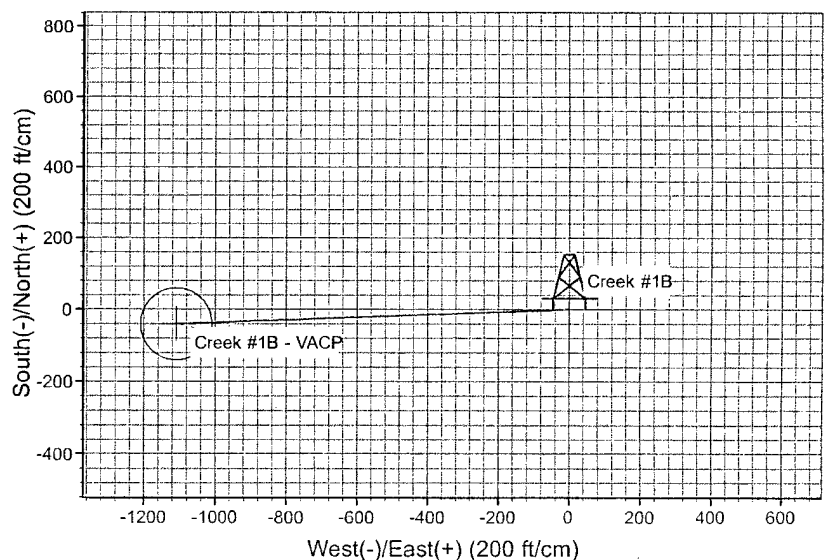
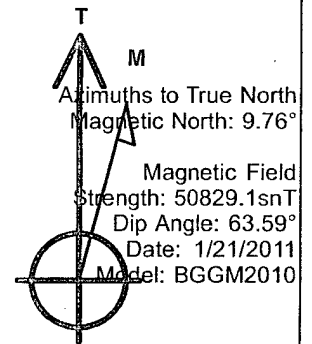
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1380.3	31.81	267.92	1326.6	-10.4	-286.6	3.00	267.92	286.8	
4	2397.8	31.81	267.92	2191.4	-29.8	-822.6	0.00	0.00	823.1	
5	3458.1	0.00	0.00	3198.0	-40.2	-1109.2	3.00	180.00	1110.0	Creek #1B - VACP
6	4032.1	0.00	0.00	3772.0	-40.2	-1109.2	0.00	0.00	1110.0	Creek #1B - ICP
7	8295.1	0.00	0.00	8035.0	-40.2	-1109.2	0.00	0.00	1110.0	Creek #1B - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1510.0	1596.0	Nacimiento
2754.0	3010.0	Ojo Alamo
2914.0	3173.0	Kirtland
2998.0	3257.7	Fruitland
3563.0	3823.1	Pictured Cliffs
3672.0	3932.1	Lewis
4320.0	4580.1	Huerfanito Bentonite
4610.0	4870.1	Chacra
5352.0	5612.1	Upper Cliff House
5467.0	5727.1	Massive Cliff House
5502.0	5762.1	Menefee
5764.0	6024.1	Point Lookout
6139.0	6399.1	Mancos
7016.0	7276.1	Upper Gallup
7764.0	8024.1	Greenhorn
7818.0	8078.1	Graneros
7918.0	8178.1	Two Wells
7928.0	8188.1	Paguate
7952.0	8212.1	Upper Cubero
7980.0	8240.1	Lower Cubero
8035.0	8295.1	Total Depth



BURLINGTON RESOURCES OIL & GAS COMPANY LP

CREEK 1B

808' FSL & 821' FEL (SURFACE LOCATION)

765' FSL & 1930' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.7495522° N

LONGITUDE: 107.3564874° W

NAD 83

SECTION 4, T-29-N, R-5-W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 550 AND
U.S. HIGHWAY 64 IN BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY 37.5 MILES ON U.S. HIGHWAY 64.

TURN LEFT ONTO NM HIGHWAY 527 AND TRAVEL NORTHERLY 2.5 MILES.

TURN RIGHT, GAIN ACCESS THROUGH LOCKED GATE,
AND TRAVEL 0.7 MILE EASTERLY.

BEAR RIGHT AT TEE INTERSECTION AND TRAVEL 0.7 MILE EASTERLY.

TURN LEFT AT TEE INTERSECTION AND TRAVEL 0.1 MILE NORTHEASTERLY.

TURN LEFT AT TEE INTERSECTION AND TRAVEL 0.5 MILE NORTHERLY.

TURN RIGHT AT TEE INTERSECTION AND TRAVEL 1.9 MILES NORTHEASTERLY
TOWARDS EDGE OF MESA.

TURN LEFT AT FOUR WAY INTERSECTION AND TRAVEL 0.3 MILE
NORTHWESTERLY TO PROPOSED CREEK 1B WELL LOCATION.