

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 09 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

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 OPERATION ON FEDERAL AND INDIAN LANDS	5. Lease Number SF-080713	Unit Reporting Number NMNM-78420A
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	
		9. Well Number 29B	
4. Location of Well Surface: Unit N(SSEW), 1002' FSL & 2040' FWL BHL : Unit O(SWSE), 710' FSL & 1167' FEL Surface: Latitude: 36.82261° N (NAD83) Longitude: 107.41626° W BHL : Latitude: 36.82181° N (NAD83) Longitude: 107.41177° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 12, T30N, R6W OIL CONS. DIV. API# 30-039-31084		
14. Distance in Miles from Nearest Town 45 miles to Blanco		12. County Rio Arriba	13. State NM DIST. 3
15. Distance from Proposed Location to Nearest Property or Lease Line 1167'			
16. Acres in Lease 912.880	 H₂S POTENTIAL EXIST	17. Acres Assigned to Well 227.48 E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 72' from SJ 30-6 Unit #40M (MV/DK)			
19. Proposed Depth 7699'		20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6209' GL		22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)		<u>9/8/11</u> Date	

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 3/26/12

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD

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

APR 02 2012 ca

PC

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

DISTRICT I
1826 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

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

SEP 09 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31084	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7469	⁵ Property Name SAN JUAN 30-6 UNIT	⁶ Well Number 29B
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6209'

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
N	12	30N	6W		1002'	SOUTH	2040'	WEST	RIO ARRIBA

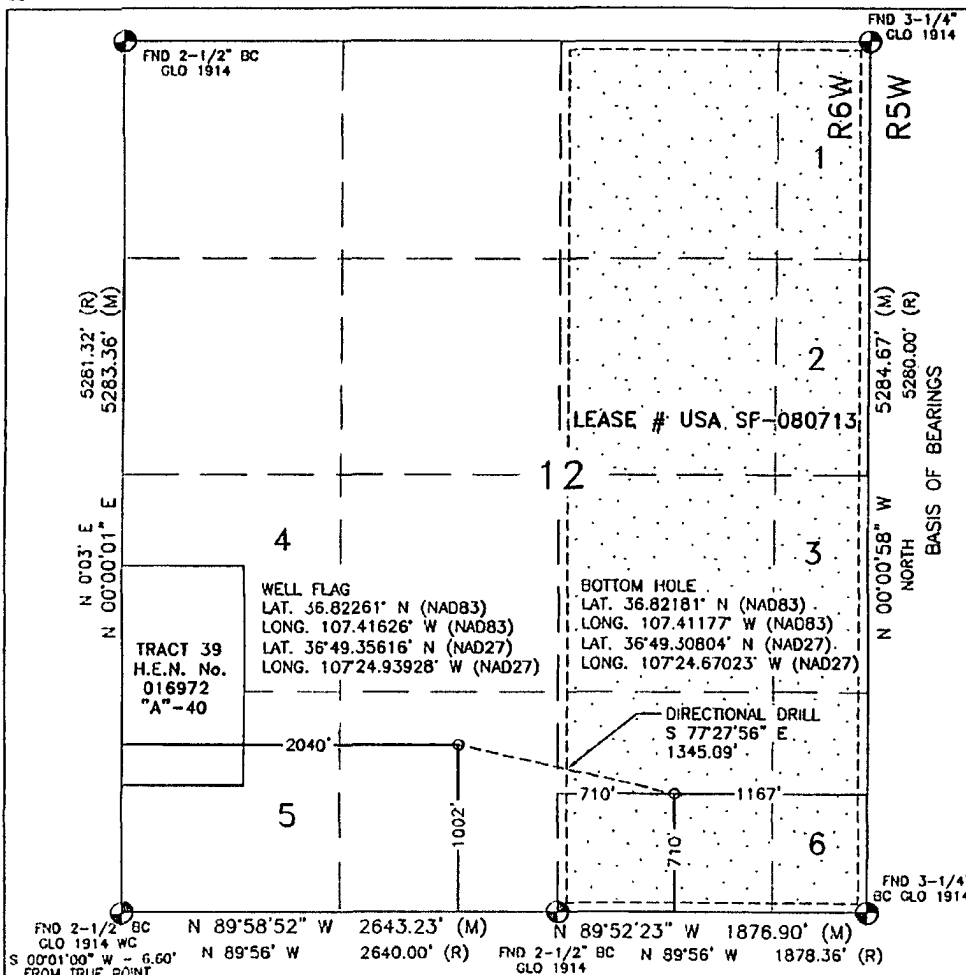
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	30N	6W		710'	SOUTH	1167'	EAST	RIO ARRIBA

¹² Dedicated Acres 227.48 ACRES - 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



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 12-26-10
Signature Date

Brandie Blakley
Printed Name

blaklbn@conocophillips.com
E-mail Address

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.

NOVEMBER 9, 2010
Date of Survey

Signature and Seal of Professional Surveyor
DAVID R. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL
Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 29B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0107				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface							
Latitude: 36.822604		Longitude: -107.415657		X:	Y:	Section: 12	Range: 006W
Footage X: 2040 FWL		Footage Y: 1002 FSL		Elevation: 6209 (FT)		Township: 030N	
Tolerance:							
Location: Bottom Hole							
Latitude: 36.821804		Longitude: -107.411167		X:	Y:	Section: 12	Range: 006W
Footage X: 1167 FEL		Footage Y: 710 FSL		Elevation: (FT)		Township: 030N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6224 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	5994		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1087	5137		☐			
OJO ALAMO	2276	3948		☐			
KIRTLAND	2390	3834		☐			
FRUITLAND	2708	3516		☐			Possible Gas
PICTURED CLIFFS	3138	3086		☐			
LEWIS	3248	2976		☐			
Intermediate Casing	3398	2826		☐	127		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 841 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3889	2335		☐			
CHACRA	4272	1952		☐			
UPPER CLIFF HOUSE	4818	1406		☐			Gas; Est. Top Perf - 4820 (1404)
MASSIVE CLIFF HOUSE	5097	1127		☐	430		Gas; Cliffhouse is dry
MENEFEE	5136	1088		☐			
POINT LOOKOUT	5396	828		☐			
MANCOS	5764	460		☐			
UPPER GALLUP	6688	-464		☐			
GREENHORN	7401	-1177		☐			
GRANEROS	7456	-1232		☐			
TWO WELLS	7562	-1338		☐	3060		Gas
PAGUATE	7572	-1348		☐			
UPPER CUBERO	7590	-1366		☐			

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 STATE OFFICE
 SANTA FE, NEW MEXICO

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 29B

DEVELOPMENT

LOWER CUBERO	7632	-1408	☐	Est. Btm Perf - 7679 (- 1455) based on offset wells
ENCINAL	7699	-1475	☐	TD - T/ENCN
Total Depth	7699	-1475	☐	223 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 585 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-5 Unit 78	30N 5W 7 SE NW SW
Production	SJ 30-6 Unit 39M	30N 6W 13 SW NE
Production	SJ 30-6 Unit 41A	30N 6W 13 SE NW
Production	SJ 30-6 Unit 40M	30N 6W 12
Production	SJ 30-6 Unit 40A	30N 6W 12 SW NW

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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STATE OFFICE
SANTA FE, NEW MEXICO

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #29B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6224.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6224.0ft (AWS Rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #29B	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:	San Juan 30 Wells		
Site Position:		Northing:	2,102,764.35 ft
From:	Lat/Long	Easting:	577,489.48 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 46' 21.851 N
		Longitude:	107° 34' 7.456 W
		Grid Convergence:	0.16 °

Well:	SJ 30-6 #29B, Directional "S", Curve Long, No Lewis		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 49' 21.370 N
		Longitude:	107° 24' 56.354 W
		Ground Level:	6,209.0 ft

Wellbore:	Principal Wellbore		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	2/11/2011	9.79
			Dip Angle
			63.64
			Field Strength
			50,860

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
			102.55

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
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	
1,407.8	32.63	102.55	1,349.9	-65.5	294.3	3.00	3.00	0.00	102.55	
2,922.6	32.63	102.55	2,625.6	-242.9	1,091.6	0.00	0.00	0.00	0.00	
3,738.4	0.00	0.00	3,398.0	-292.0	1,312.4	4.00	-4.00	0.00	180.00	SJ 30-6 #29B - ICP
8,039.4	0.00	0.00	7,699.0	-292.0	1,312.4	0.00	0.00	0.00	0.00	SJ 30-6 #29B - PCP

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Planning Report

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Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6224.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells:	MD Reference:	RKB @ 6224.0ft (AWS Rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #29B	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	102.55	400.0	-0.4	1.6	1.7	3.00	3.00	0.00
500.0	5.40	102.55	499.7	-1.8	8.3	8.5	3.00	3.00	0.00
600.0	8.40	102.55	599.0	-4.5	20.0	20.5	3.00	3.00	0.00
700.0	11.40	102.55	697.5	-8.2	36.8	37.7	3.00	3.00	0.00
800.0	14.40	102.55	795.0	-13.0	58.6	60.0	3.00	3.00	0.00
900.0	17.40	102.55	891.1	-19.0	85.3	87.4	3.00	3.00	0.00
1,000.0	20.40	102.55	985.7	-26.0	116.9	119.8	3.00	3.00	0.00
1,100.0	23.40	102.55	1,078.5	-34.1	153.3	157.1	3.00	3.00	0.00
1,109.3	23.68	102.55	1,087.0	-34.9	156.9	160.8	3.00	3.00	0.00
Nacimiento									
1,200.0	26.40	102.55	1,169.2	-43.3	194.4	199.2	3.00	3.00	0.00
1,300.0	29.40	102.55	1,257.6	-53.4	240.1	246.0	3.00	3.00	0.00
1,407.8	32.63	102.55	1,349.9	-65.5	294.3	301.5	3.00	3.00	0.00
1,500.0	32.63	102.55	1,427.6	-76.3	342.8	351.2	0.00	0.00	0.00
1,600.0	32.63	102.55	1,511.8	-88.0	395.5	405.1	0.00	0.00	0.00
1,700.0	32.63	102.55	1,596.0	-99.7	448.1	459.1	0.00	0.00	0.00
1,800.0	32.63	102.55	1,680.2	-111.4	500.8	513.0	0.00	0.00	0.00
1,900.0	32.63	102.55	1,764.4	-123.1	553.4	566.9	0.00	0.00	0.00
2,000.0	32.63	102.55	1,848.6	-134.9	606.0	620.9	0.00	0.00	0.00
2,100.0	32.63	102.55	1,932.9	-146.6	658.7	674.8	0.00	0.00	0.00
2,200.0	32.63	102.55	2,017.1	-158.3	711.3	728.7	0.00	0.00	0.00
2,300.0	32.63	102.55	2,101.3	-170.0	763.9	782.6	0.00	0.00	0.00
2,400.0	32.63	102.55	2,185.5	-181.7	816.6	836.6	0.00	0.00	0.00
2,500.0	32.63	102.55	2,269.7	-193.4	869.2	890.5	0.00	0.00	0.00
2,507.5	32.63	102.55	2,276.0	-194.3	873.1	894.5	0.00	0.00	0.00
Ojo									
2,600.0	32.63	102.55	2,353.9	-205.1	921.9	944.4	0.00	0.00	0.00
2,642.8	32.63	102.55	2,390.0	-210.2	944.4	967.5	0.00	0.00	0.00
Kirtland									
2,700.0	32.63	102.55	2,438.1	-216.9	974.5	998.3	0.00	0.00	0.00
2,800.0	32.63	102.55	2,522.4	-228.6	1,027.1	1,052.3	0.00	0.00	0.00
2,831.6	32.63	102.55	2,549.0	-232.3	1,043.8	1,069.3	0.00	0.00	0.00
Stage Tool									
2,900.0	32.63	102.55	2,606.6	-240.3	1,079.8	1,106.2	0.00	0.00	0.00
2,922.6	32.63	102.55	2,625.6	-242.9	1,091.6	1,118.3	0.00	0.00	0.00
3,000.0	29.54	102.55	2,691.9	-251.6	1,130.7	1,158.3	4.00	-4.00	0.00
3,018.5	28.80	102.55	2,708.0	-253.6	1,139.4	1,167.3	4.00	-4.00	0.00
Fruitland									
3,100.0	25.54	102.55	2,780.5	-261.6	1,175.8	1,204.5	4.00	-4.00	0.00
3,200.0	21.54	102.55	2,872.2	-270.3	1,214.8	1,244.5	4.00	-4.00	0.00
3,300.0	17.54	102.55	2,966.4	-277.6	1,247.4	1,277.9	4.00	-4.00	0.00
3,400.0	13.54	102.55	3,062.8	-283.4	1,273.5	1,304.7	4.00	-4.00	0.00
3,476.9	10.46	102.55	3,138.0	-286.9	1,289.1	1,320.7	4.00	-4.00	0.00
Pictured Cliffs									
3,500.0	9.54	102.55	3,160.7	-287.7	1,293.0	1,324.7	4.00	-4.00	0.00
3,588.1	6.01	102.55	3,248.0	-290.3	1,304.7	1,336.6	4.00	-4.00	0.00

ConocoPhillips or its affiliates

Planning Report

Databas:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #29B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6224 0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6224 0ft (AWS Rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #29B	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)
Lewis									
3,600.0	5.54	102.55	3,259.8	-290.6	1,305.8	1,337.8	4.00	-4.00	0.00
3,700.0	1.54	102.55	3,359.6	-291.9	1,311.9	1,343.9	4.00	-4.00	0.00
3,738.4	0.00	0.00	3,398.0	-292.0	1,312.4	1,344.5	4.00	-4.00	-267.16
Intermediate - SJ 30-6 #29B - ICP									
3,800.0	0.00	0.00	3,459.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
3,900.0	0.00	0.00	3,559.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,000.0	0.00	0.00	3,659.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,100.0	0.00	0.00	3,759.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,200.0	0.00	0.00	3,859.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,229.4	0.00	0.00	3,889.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Huerfano Bentonite									
4,300.0	0.00	0.00	3,959.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,059.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,159.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,259.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,612.4	0.00	0.00	4,272.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Chacra									
4,700.0	0.00	0.00	4,359.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,459.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,559.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,659.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,100.0	0.00	0.00	4,759.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,158.4	0.00	0.00	4,818.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Upper Cliffhouse									
5,200.0	0.00	0.00	4,859.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,300.0	0.00	0.00	4,959.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,059.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,437.4	0.00	0.00	5,097.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Massive Cliffhouse									
5,476.4	0.00	0.00	5,136.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Menefee									
5,500.0	0.00	0.00	5,159.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,259.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,359.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,736.4	0.00	0.00	5,396.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Point Lookout									
5,800.0	0.00	0.00	5,459.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,559.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,659.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,100.0	0.00	0.00	5,759.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,104.4	0.00	0.00	5,764.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
Mancos									
6,200.0	0.00	0.00	5,859.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,300.0	0.00	0.00	5,959.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,059.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,159.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,259.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,359.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,459.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,559.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,659.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00
7,028.4	0.00	0.00	6,688.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00

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Planning Report

Database	EDM Central Planning	Local Co-ordinate Reference	Well SJ 30-6 #29B
Company	ConocoPhillips SJB	TVD Reference	RKB @ 6224 0ft (AWS Rigs)
Project	San Juan Basin - New Mexico West Wells	MD Reference	RKB @ 6224 0ft (AWS Rigs)
Site	San Juan 30 Wells	North Reference	True
Well	SJ 30-6 #29B	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)	
Upper Gallup										
7,100.0	0.00	0.00	6,759.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,859.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,959.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,059.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,159.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,259.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,359.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,741.4	0.00	0.00	7,401.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Greenhorn										
7,796.4	0.00	0.00	7,456.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Graneros										
7,800.0	0.00	0.00	7,459.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,559.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
7,902.4	0.00	0.00	7,562.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Two Wells										
7,912.4	0.00	0.00	7,572.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Paguate										
7,930.4	0.00	0.00	7,590.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Upper Cubero										
7,972.4	0.00	0.00	7,632.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Lower Cubero										
8,000.0	0.00	0.00	7,659.6	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
8,039.4	0.00	0.00	7,699.0	-292.0	1,312.4	1,344.5	0.00	0.00	0.00	
Encinal - Production - SJ 30-6 #29B - 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
SJ 30-6 #29B - ICP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	3,398.0	-292.0	1,312.4	2,118,668.15	623,565.36	36° 49' 18.482 N	107° 24' 40.214 W
SJ 30-6 #29B - PCP	- plan hits target center - Circle (radius 100.0)	0.00	0.00	7,699.0	-292.0	1,312.4	2,118,668.15	623,565.36	36° 49' 18.482 N	107° 24' 40.214 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
230.0	230.0	Surface	9-5/8	12-1/4	
3,738.4	3,398.0	Intermediate	7	8-3/4	
8,039.4	7,699.0	Production	4-1/2	6-1/4	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #29B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6224.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6224.0ft (AWS Rigs)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #29B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,507.5	2,276.0	Ojo		0.00		
7,902.4	7,562.0	Two Wells		0.00		
4,229.4	3,889.0	Huerfanto Bentonite		0.00		
7,912.4	7,572.0	Paguate		0.00		
5,736.4	5,396.0	Point Lookout		0.00		
3,476.9	3,138.0	Pictured Cliffs		0.00		
7,741.4	7,401.0	Greenhorn		0.00		
2,642.8	2,390.0	Kirtland		0.00		
1,109.3	1,087.0	Nacimiento		0.00		
7,028.4	6,688.0	Upper Gallup		0.00		
3,588.1	3,248.0	Lewis		0.00		
5,158.4	4,818.0	Upper Cliffhouse		0.00		
5,476.4	5,136.0	Menefee		0.00		
2,831.6	2,549.0	Stage Tool		0.00		
4,612.4	4,272.0	Chacra		0.00		
7,796.4	7,456.0	Graneros		0.00		
5,437.4	5,097.0	Massive Cliffhouse		0.00		
7,930.4	7,590.0	Upper Cubero		0.00		
7,972.4	7,632.0	Lower Cubero		0.00		
3,018.5	2,708.0	Fruitland		0.00		
8,039.4	7,699.0	Encinal		0.00		
6,104.4	5,764.0	Mancos		0.00		

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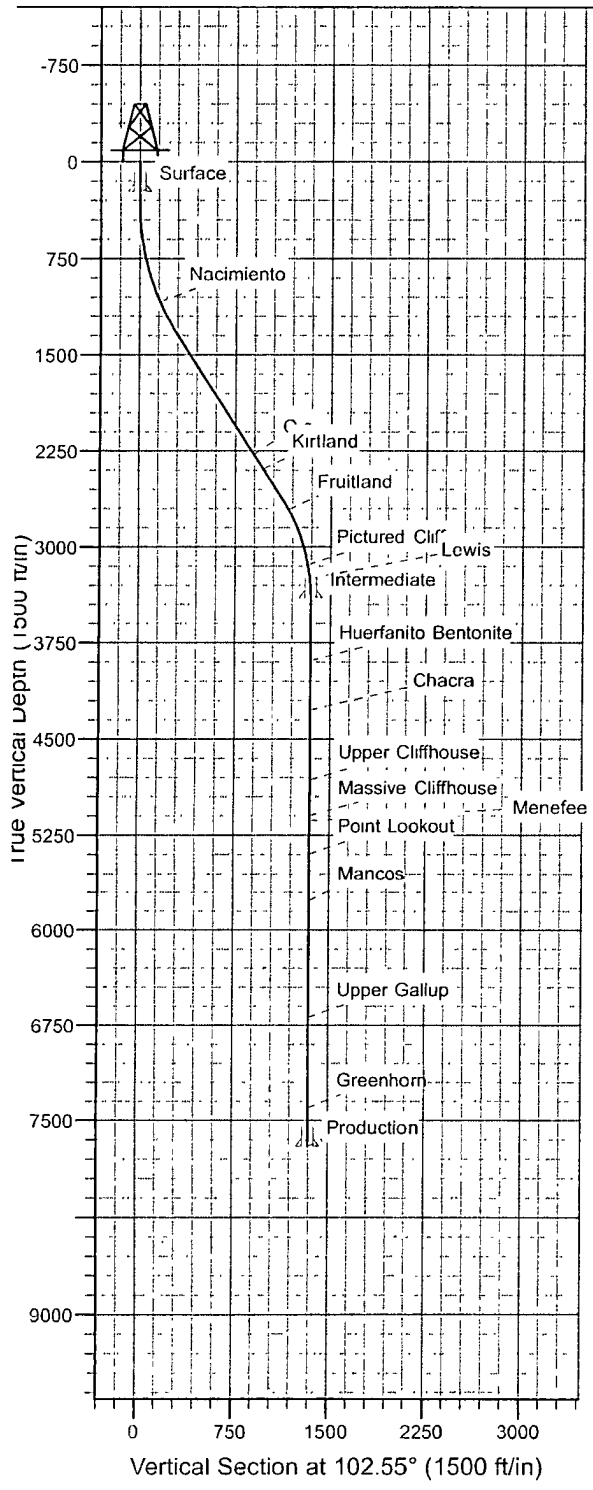
REFERENCE INFORMATION
 RKB @ 6224.0ft (AWS Rigs)
 Ground Elevation 6209.0
 Reference Lat: 36° 49' 21.370 N
 Reference Long: 107° 24' 56.354 W

Project: San Juan Basin - New Mexico West
 Site: San Juan 30 Wells
 Well: SJ 30-6 #29B
 Wellbore: Principal Wellbore
 Design: Plan #1

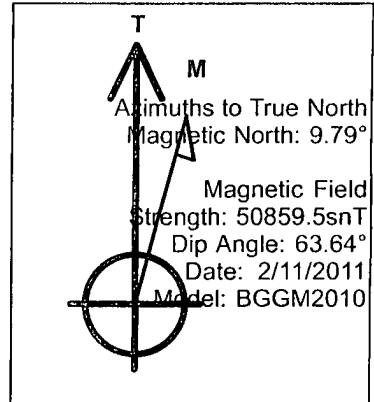


SECTION DETAILS

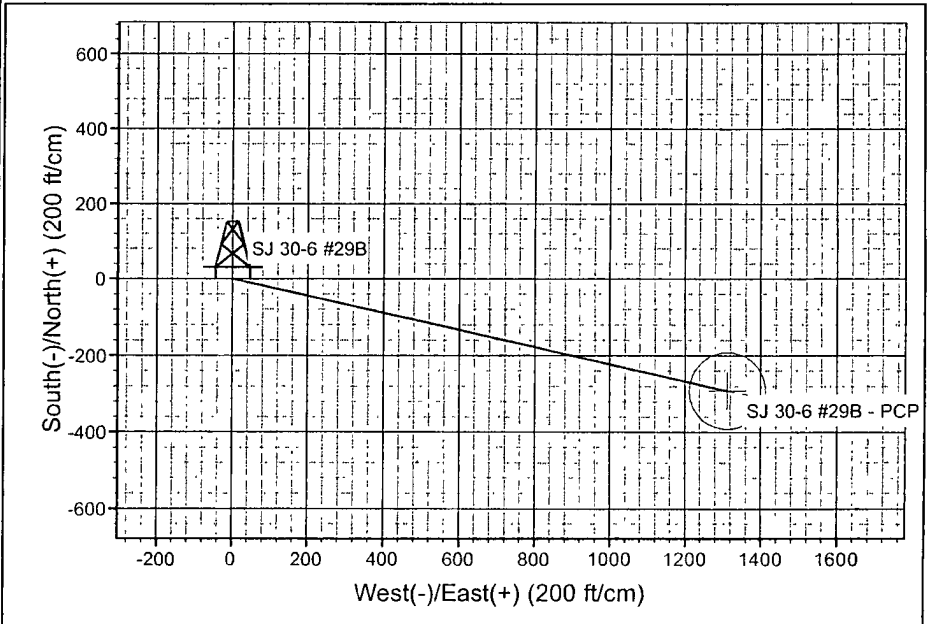
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1407.8	32.63	102.55	1349.9	-65.5	294.3	3.00	102.55	301.5	
4	2922.6	32.63	102.55	2625.6	-242.9	1091.6	0.00	0.00	1118.3	
5	3738.4	0.00	0.00	3398.0	-292.0	1312.4	4.00	180.00	1344.5	SJ 30-6 #29B - ICP
6	8039.4	0.00	0.00	7699.0	-292.0	1312.4	0.00	0.00	1344.5	SJ 30-6 #29B - PCP



FORMATION TOP DETAILS		
TVDP	MD	Formation
1087.0	1109.3	Nacimiento
2276.0	2507.5	Ojo
2390.0	2642.8	Kirtland
2549.0	2831.6	Stage Tool
2708.0	3018.5	Fruitland
3138.0	3476.9	Pictured Cliffs
3248.0	3588.1	Lewis
3889.0	4229.4	Huerfano Bentonite
4272.0	4612.4	Chacra
4818.0	5158.4	Upper Cliffhouse
5097.0	5437.4	Massive Cliffhouse
5136.0	5476.4	Menefee
5396.0	5736.4	Point Lookout
5764.0	6104.4	Mancos
6688.0	7028.4	Upper Gallup
7401.0	7741.4	Greenhorn
7456.0	7796.4	Graneros
7562.0	7902.4	Two Wells
7572.0	7912.4	Paguate
7590.0	7930.4	Upper Cubero
7632.0	7972.4	Lower Cubero
7699.0	8039.4	Encinal



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BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 30-6 UNIT #29B

1002' FSL & 2040' FWL

LOCATED IN THE SE/4 SW/4 OF SECTION 12,

T30N, R6W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO TRAVEL EAST ON HIGHWAY 64 FOR 29 MILES TO HIGHWAY 527.
- 2) TRAVEL NORTH IN HIGHWAY 527 FOR 8.0 MILES TO ROSA ROAD.
- 3) TURN RIGHT ON TO THE MAIN DIRT ROAD AND TRAVEL 6.4 MILES.
- 4) TURN RIGHT AND TRAVEL 1.0 MILE.
- 5) TURN RIGHT AND TRAVEL 0.2 MILES.
- 6) TURN LEFT INTO EXISTING WELL LOCATION.

WELL FLAG LOCATED AT LAT. 36.82261° N, LONG. 107.41626° W (NAD 83).

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