

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 28 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-078423 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 DK-NM NM 78417B MV-NM NM 78417A San Juan 29-7 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number 86N RCVD NOV 15'10 OIL CONS. DIV.
4. Location of Well Surface: Unit B(NWNE), 480' FNL & 2075' FEL BottomHole: Unit C(NENW), 615' FNL & 2055' FEL Surface: Latitude: 36.731833° N (NAD83) Longitude: 107.592409° W Bottomhole: Latitude: 36.731503° N (NAD83) Longitude: 107.596351° W	10. Field, Pool, Wildcat Basin DK/Blanco MV DIST. 3 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 17, T29N, R7W API # 30-039-31000
14. Distance in Miles from Nearest Town 25.1 Miles from Bloomfield, NM	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 480'	
16. Acres in Lease 2,400	17. Acres Assigned to Well 320.00 W/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 83.2' from San Juan 29-7 44E (DK)	
19. Proposed Depth 8023' 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.) 6773' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Technician)	<u>10-26-10</u> 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.

DEC 17 2010

Master Plan Type 3
A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

Bond Numbers NMB-000015 and NMB-000089

NMOCD

for Directional Survey
and "As Drilled" plat

FORCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

OCT 20 2005

Farmington Field Office
Bureau of Land Management

Form C-102

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 30-039-31000	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 37444-7405	⁵ Property Name SAN JUAN 29-7 UNIT	⁶ Well Number 86N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6773

¹⁰ SURFACE LOCATION

UL or lot no. B	Section 17	Township 29-N	Range 7-W	Lot Idn	Feet from the 480	North/South line NORTH	Feet from the 2075	East/West line EAST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 17	Township 29-N	Range 7-W	Lot Idn	Feet from the 615	North/South line NORTH	Feet from the 2055	East/West line WEST	County RIO ARRIBA
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¹² Dedicated Acres 320.00	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°31'07" W 2055' BOTTOM HOLE NAD 83 LAT: 36.731503° N LONG: 107.596351° W NAD 27 LAT: 36°43.889823' N LONG: 107°35.744536' W S 83°55'21" W 1161.3'	615' 480' 2075' WELL FLAG NAD 83 LAT: 36.731833° N LONG: 107.592409° W NAD 27 LAT: 36°43.909611' N LONG: 107°35.508042' W 2640.0' (R) 2607.8' (M) N 0°03' W N 0°16'31" W 5284.5' (R) GLO 1914 FD. MON.	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. Ethel Tally Signature Ethel Tally Printed Name Staff Reg Tech Title and E-mail Address 3/12/10 Date 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: 7/11/08 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 86N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8269				AFE \$: 1,498,774.26	
Field Name: SAN JUAN 29-7 UNIT		Rig: Aztec Rig 711		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: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.731827	Longitude: -107.591800	X:	Y:	Section: 17	Range: 007W		
Footage X: 2075 FEL	Footage Y: 480 FNL	Elevation: 6773	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.731497	Longitude: -107.595742	X:	Y:	Section: 17	Range: 007W		
Footage X: 2055 FWL	Footage Y: 615 FNL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6789 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6589		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1182	5607		☐			
OJO ALAMO	2617	4172		☐			
KIRTLAND	2736	4053		☐			
FRUTLAND	3155	3634		☐			Possible Gas
PICTURED CLIFFS	3559	3230		☐			
LEWIS	3724	3065		☐			
Intermediate Casing	3874	2915		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 936 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4282	2507		☐			
CHACRA	4533	2256		☐			Est. Top Perf - 4535 (2254)
UPPER CLIFF HOUSE	5073	1716		☐			Gas
MASSIVE CLIFF HOUSE	5279	1510		☐	530		Gas
MENEFEE	5377	1412		☐			
POINT LOOKOUT	5715	1074		☐			
MANCOS	6147	642		☐			
UPPER GALLUP	6983	-194		☐			
GREENHORN	7725	-936		☐			
GRANEROS	7779	-990		☐			
TWO WELLS	7831	-1042		☐	2903		Gas
PAGUATE	7875	-1086		☐			
UPPER CUBERO	7943	-1154		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 86N

DEVELOPMENT

LOWER CUBERO	7969	-1180	☐	Est. Btm Perf - 8003 (-1214) based on offset wells
ENCINAL	8023	-1234	☐	TD - T/ENCN
Total Depth	8023	-1234	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80 LTC casing. Cement w/ 565 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 29-7 44E	29N-7W17 NW NW NE
Production	SJ 29-7 86-A	29N-7W17 NE SW NW
Production	SJ 29-7 81M	29N-7W18 SW NE NE

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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Cased Hole GR / CBL. Mudlog from ~100' above the Upper Gallup to TD. Mudloggers will call final 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 29-7 #86N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6789.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6789.0ft (H&P RIGS)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #86N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project	San Juan Basin - New Mexico 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 29 Wells				
Site Position:		Northing:	2,094,594.32 ft	Latitude:	36° 45' 21.930 N
From:	Lat/Long	Easting:	582,092.15 ft	Longitude:	107° 33' 11.172 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.17 °

Well	SJ 29-7 #86N, Directional "S" Curve Short, Lewis Included					
Well Position	+N/-S	0.0 ft	Northing:	2,085,729.97 ft	Latitude:	36° 43' 54.577 N
	+E/-W	0.0 ft	Easting:	570,778.14 ft	Longitude:	107° 35' 30.483 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,773.0 ft

Wellbore	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	7/30/2010	9.92	63.54	50,840

Design	Plan #1				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	264.06	

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	
1,458.7	34.16	264.06	1,392.4	-34.1	-327.7	3.00	3.00	0.00	264.06	
2,353.2	34.16	264.06	2,132.6	-86.0	-827.3	0.00	0.00	0.00	0.00	
3,491.9	0.00	0.00	3,205.0	-120.1	-1,155.1	3.00	-3.00	0.00	180.00	SJ 29-7 #86N - VACP
4,160.9	0.00	0.00	3,874.0	-120.1	-1,155.1	0.00	0.00	0.00	0.00	SJ 29-7 #86N - ICP
8,309.9	0.00	0.00	8,023.0	-120.1	-1,155.1	0.00	0.00	0.00	0.00	SJ 29-7 #86N - PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico Wells
 Site: San Juan 29 Wells
 Well: SJ 29-7 #86N
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 29-7 #86N
 TVD Reference: RKB @ 6789.0ft (H&P RIGS)
 MD Reference: RKB @ 6789.0ft (H&P RIGS)
 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)
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
Surf									
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	264.06	400.0	-0.2	-1.7	1.7	3.00	3.00	0.00
500.0	5.40	264.06	499.7	-0.9	-8.4	8.5	3.00	3.00	0.00
600.0	8.40	264.06	599.0	-2.1	-20.4	20.5	3.00	3.00	0.00
700.0	11.40	264.06	697.5	-3.9	-37.5	37.7	3.00	3.00	0.00
800.0	14.40	264.06	795.0	-6.2	-59.7	60.0	3.00	3.00	0.00
900.0	17.40	264.06	891.1	-9.0	-86.9	87.4	3.00	3.00	0.00
1,000.0	20.40	264.06	985.7	-12.4	-119.1	119.8	3.00	3.00	0.00
1,100.0	23.40	264.06	1,078.5	-16.2	-156.2	157.1	3.00	3.00	0.00
1,200.0	26.40	264.06	1,169.2	-20.6	-198.1	199.2	3.00	3.00	0.00
1,214.3	26.83	264.06	1,182.0	-21.3	-204.5	205.6	3.00	3.00	0.00
Nacimiento									
1,300.0	29.40	264.06	1,257.6	-25.4	-244.6	246.0	3.00	3.00	0.00
1,400.0	32.40	264.06	1,343.4	-30.8	-295.7	297.3	3.00	3.00	0.00
1,458.7	34.16	264.06	1,392.4	-34.1	-327.7	329.5	3.00	3.00	0.00
1,500.0	34.16	264.06	1,426.6	-36.5	-350.8	352.7	0.00	0.00	0.00
1,600.0	34.16	264.06	1,509.3	-42.3	-406.7	408.9	0.00	0.00	0.00
1,700.0	34.16	264.06	1,592.1	-48.1	-462.5	465.0	0.00	0.00	0.00
1,800.0	34.16	264.06	1,674.8	-53.9	-518.4	521.2	0.00	0.00	0.00
1,900.0	34.16	264.06	1,757.6	-59.7	-574.2	577.3	0.00	0.00	0.00
2,000.0	34.16	264.06	1,840.3	-65.5	-630.1	633.5	0.00	0.00	0.00
2,100.0	34.16	264.06	1,923.1	-71.3	-685.9	689.6	0.00	0.00	0.00
2,200.0	34.16	264.06	2,005.8	-77.1	-741.8	745.8	0.00	0.00	0.00
2,300.0	34.16	264.06	2,088.6	-82.9	-797.6	801.9	0.00	0.00	0.00
2,353.2	34.16	264.06	2,132.6	-86.0	-827.3	831.8	0.00	0.00	0.00
2,400.0	32.76	264.06	2,171.6	-88.7	-853.0	857.6	3.00	-3.00	0.00
2,500.0	29.76	264.06	2,257.1	-94.1	-904.6	909.5	3.00	-3.00	0.00
2,600.0	26.76	264.06	2,345.2	-99.0	-951.7	956.8	3.00	-3.00	0.00
2,700.0	23.76	264.06	2,435.6	-103.4	-994.1	999.5	3.00	-3.00	0.00
2,800.0	20.76	264.06	2,528.2	-107.3	-1,031.8	1,037.3	3.00	-3.00	0.00
2,894.2	17.93	264.06	2,617.0	-110.5	-1,062.8	1,068.5	3.00	-3.00	0.00
Ojo Alamo									
2,900.0	17.76	264.06	2,622.6	-110.7	-1,064.6	1,070.3	3.00	-3.00	0.00
3,000.0	14.76	264.06	2,718.5	-113.6	-1,092.4	1,098.3	3.00	-3.00	0.00
3,018.0	14.22	264.06	2,736.0	-114.1	-1,096.9	1,102.8	3.00	-3.00	0.00
Kirtland									
3,100.0	11.76	264.06	2,815.9	-116.0	-1,115.2	1,121.2	3.00	-3.00	0.00
3,200.0	8.76	264.06	2,914.3	-117.8	-1,132.9	1,139.0	3.00	-3.00	0.00
3,231.1	7.82	264.06	2,945.0	-118.3	-1,137.4	1,143.5	3.00	-3.00	0.00
Stage Tool									
3,300.0	5.76	264.06	3,013.4	-119.1	-1,145.5	1,151.7	3.00	-3.00	0.00
3,400.0	2.76	264.06	3,113.2	-119.9	-1,152.9	1,159.1	3.00	-3.00	0.00
3,441.9	1.50	264.06	3,155.0	-120.1	-1,154.4	1,160.7	3.00	-3.00	0.00
Fruitland									
3,491.9	0.00	0.00	3,205.0	-120.1	-1,155.1	1,161.3	3.00	-3.00	0.00
SJ 29-7 #86N - VACP									
3,500.0	0.00	0.00	3,213.1	-120.1	-1,155.1	1,161.3	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 Wells
 Site: San Juan 29 Wells
 Well: SJ 29-7 #86N
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 29-7 #86N
 TVD Reference: RKB @ 6789.0ft (H&P RIGS)
 MD Reference: RKB @ 6789.0ft (H&P RIGS)
 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)
3,600.0	0.00	0.00	3,313.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
3,700.0	0.00	0.00	3,413.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
3,800.0	0.00	0.00	3,513.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
3,845.9	0.00	0.00	3,559.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Pictured Cliffs									
3,900.0	0.00	0.00	3,613.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,000.0	0.00	0.00	3,713.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,010.9	0.00	0.00	3,724.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Lewis									
4,100.0	0.00	0.00	3,813.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,160.9	0.00	0.00	3,874.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Inter - SJ 29-7 #86N - ICP									
4,200.0	0.00	0.00	3,913.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,300.0	0.00	0.00	4,013.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,400.0	0.00	0.00	4,113.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,500.0	0.00	0.00	4,213.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,568.9	0.00	0.00	4,282.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Huerfano Bentonite									
4,600.0	0.00	0.00	4,313.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,700.0	0.00	0.00	4,413.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,800.0	0.00	0.00	4,513.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
4,819.9	0.00	0.00	4,533.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Chacra									
4,900.0	0.00	0.00	4,613.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,713.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,100.0	0.00	0.00	4,813.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,200.0	0.00	0.00	4,913.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,013.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,359.9	0.00	0.00	5,073.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Upper Cliffhouse									
5,400.0	0.00	0.00	5,113.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,213.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,565.9	0.00	0.00	5,279.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Massive Cliffhouse									
5,600.0	0.00	0.00	5,313.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,663.9	0.00	0.00	5,377.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Menefee									
5,700.0	0.00	0.00	5,413.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,513.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,613.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,713.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,001.9	0.00	0.00	5,715.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Point Lookout									
6,100.0	0.00	0.00	5,813.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,200.0	0.00	0.00	5,913.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,013.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,113.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,433.9	0.00	0.00	6,147.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Mancos									
6,500.0	0.00	0.00	6,213.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,313.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,413.1	-120.1	-1,155.1	1,161.3	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 Wells
 Site: San Juan 29 Wells
 Well: SJ 29-7 #86N
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 29-7 #86N
 TVD Reference: RKB @ 6789.0ft (H&P RIGS)
 MD Reference: RKB @ 6789.0ft (H&P RIGS)
 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)
6,800.0	0.00	0.00	6,513.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,613.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,713.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,100.0	0.00	0.00	6,813.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,200.0	0.00	0.00	6,913.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,269.9	0.00	0.00	6,983.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Upper Gallup									
7,300.0	0.00	0.00	7,013.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,113.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,213.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,313.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,413.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,513.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,613.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,713.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
8,011.9	0.00	0.00	7,725.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Greenhorn									
8,065.9	0.00	0.00	7,779.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Graneros									
8,100.0	0.00	0.00	7,813.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
8,117.9	0.00	0.00	7,831.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Two Wells									
8,161.9	0.00	0.00	7,875.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Paguete									
8,200.0	0.00	0.00	7,913.1	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
8,229.9	0.00	0.00	7,943.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Upper cubero									
8,255.9	0.00	0.00	7,969.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Lower Cubero									
8,309.9	0.00	0.00	8,023.0	-120.1	-1,155.1	1,161.3	0.00	0.00	0.00
Encinal - Total Depth - Prod - SJ 29-7 #86N - PCP									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 29-7 #86N - VACP	0.00	0.00	3,205.0	-120.1	-1,155.1	2,085,606.95	569,623.46	36° 43' 53.389 N	107° 35' 44.672 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 29-7 #86N - PCP	0.00	0.00	8,023.0	-120.1	-1,155.1	2,085,606.95	569,623.46	36° 43' 53.389 N	107° 35' 44.672 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 29-7 #86N - ICP	0.00	0.00	3,874.0	-120.1	-1,155.1	2,085,606.95	569,623.46	36° 43' 53.389 N	107° 35' 44.672 W
- plan hits target center									
- Circle (radius 100.0)									

ConocoPhillips or its affiliates
Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico Wells
Site: San Juan 29 Wells
Well: SJ 29-7 #86N
Wellbore: Principal Wellbore
Design: Plan #1

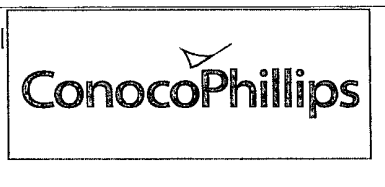
Local Co-ordinate Reference: Well SJ 29-7 #86N
TVD Reference: RKB @ 6789.0ft (H&P RIGS)
MD Reference: RKB @ 6789.0ft (H&P RIGS)
North Reference: True
Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
230.0	230.0	Surf	9-5/8	12-1/4
4,160.9	3,874.0	Inter	7	8-3/4
8,309.9	8,023.0	Prod	4-1/2	6-1/4

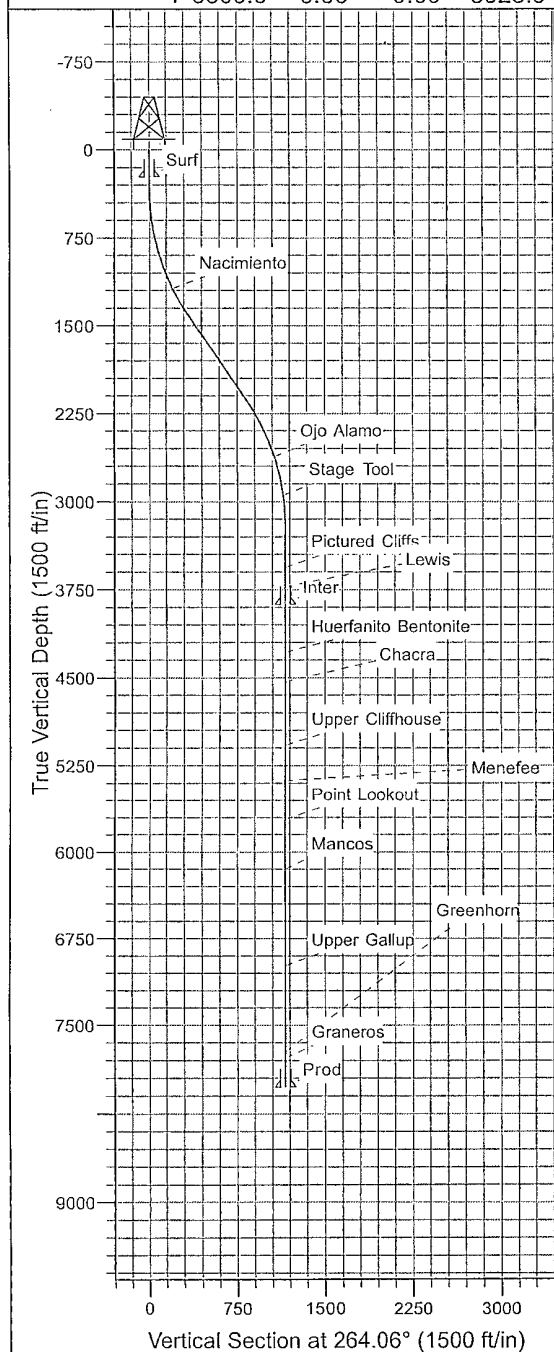
Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,894.2	2,617.0	Ojo Alamo		0.00	
8,229.9	7,943.0	Upper cubero		0.00	
1,214.3	1,182.0	Nacimiento		0.00	
8,309.9	8,023.0	Total Depth		0.00	
3,441.9	3,155.0	Fruitland		0.00	
8,255.9	7,969.0	Lower Cubero		0.00	
4,568.9	4,282.0	Huerfanito Bentonite		0.00	
8,309.9	8,023.0	Encinal		0.00	
5,663.9	5,377.0	Menefee		0.00	
6,433.9	6,147.0	Mancos		0.00	
8,065.9	7,779.0	Graneros		0.00	
6,001.9	5,715.0	Point Lookout		0.00	
4,819.9	4,533.0	Chacra		0.00	
7,269.9	6,983.0	Upper Gallup		0.00	
5,359.9	5,073.0	Upper Cliffhouse		0.00	
8,011.9	7,725.0	Greenhorn		0.00	
3,845.9	3,559.0	Pictured Cliffs		0.00	
3,018.0	2,736.0	Kirtland		0.00	
8,117.9	7,831.0	Two Wells		0.00	
8,161.9	7,875.0	Paguate		0.00	
3,231.1	2,945.0	Stage Tool		0.00	
5,565.9	5,279.0	Massive Cliffhouse		0.00	
4,010.9	3,724.0	Lewis		0.00	

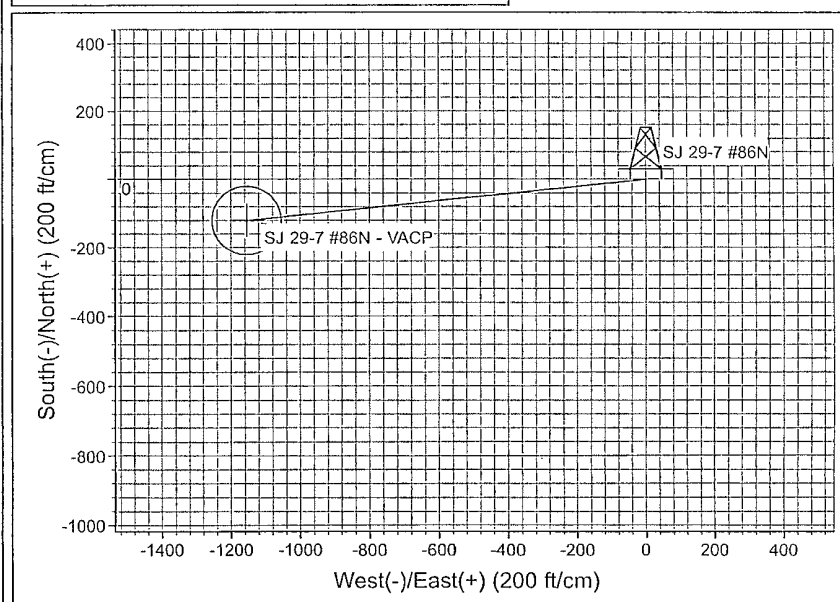
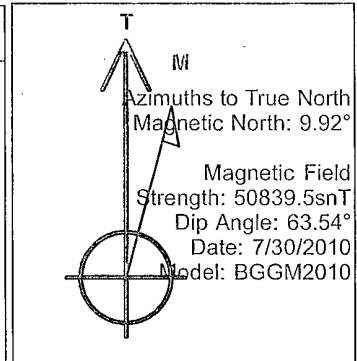
REFERENCE INFORMATION RKB @ 6789.0ft (H&P RIGS) Ground Elevation 6773.0 Reference Lat: 36° 43' 54.577 N Reference Long: 107° 35' 30.483 W	Project: San Juan Basin - New Mexico Well Site: San Juan 29 Wells Well: SJ 29-7 #86N Wellbore: Principal Wellbore Design: Plan #1	
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SECTION 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	1458.7	34.16	264.06	1392.4	-34.1	-327.7	3.00	264.06	329.5	
4	2353.2	34.16	264.06	2132.6	-86.0	-827.3	0.00	0.00	831.8	
5	3491.9	0.00	0.00	3205.0	-120.1	-1155.1	3.00	180.00	1161.3	SJ 29-7 #86N - VACP
6	4160.9	0.00	0.00	3874.0	-120.1	-1155.1	0.00	0.00	1161.3	SJ 29-7 #86N - ICP
7	8309.9	0.00	0.00	8023.0	-120.1	-1155.1	0.00	0.00	1161.3	SJ 29-7 #86N - PCP



FORMATION TOP DETAILS		
VDPPath	MDPath	Formation
1182.0	1214.3	Nacimiento
2617.0	2894.2	Ojo Alamo
2736.0	3018.0	Kirtland
2945.0	3231.1	Stage Tool
3155.0	3441.9	Fruitland
3559.0	3845.9	Pictured Cliffs
3724.0	4010.9	Lewis
4282.0	4568.9	Huerfano Bentonite
4533.0	4819.9	Chacra
5073.0	5359.9	Upper Cliffhouse
5279.0	5565.9	Massive Cliffhouse
5377.0	5663.9	Menefee
5715.0	6001.9	Point Lookout
6147.0	6433.9	Mancos
6983.0	7269.9	Upper Gallup
7725.0	8011.9	Greenhorn
7779.0	8065.9	Graneros
7831.0	8117.9	Two Wells
7875.0	8161.9	Paguate
7943.0	8229.9	Upper cubero
7969.0	8255.9	Lower Cubero
8023.0	8309.9	Encinal
8023.0	8309.9	Total Depth



4.80' FNL, 2075' FEEL

NEW ACCESS



1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES' OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 29-7 UNIT #86N

480' FNL, 2075' FEL

SECTION 17, T-29-N, R-7-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.731833'N LONG.: 107.592409'W

ELEV.: 6773 NAVD88

NO NEW ACCESS

FROM THE INTERSECTION OF HWY. 550 AND HWY. 64 LOCATED IN
BLOOMFIELD, N.M. (FARMERS MARKET) GOING EAST ON HWY. 64
TOWARDS BLANCO, N.M.:

- GO 17.8 MILES EAST ON HWY. 64 (MILE POST 82.2) AND TURN RIGHT (SOUTHEAST) ON C.R. 520(RIDGE ROAD).
- GO 5.3 MILES SOUTHEAST ALONG C.R. 520 AND TURN LEFT (NORTHEAST).
- GO 1.5 MILES NORTHEAST, STAYING ALONG THE TOP OF THE MESA, AND TURN LEFT (WEST).
- GO 0.3 MILES WESTERLY TO EXISTING LOCATION FOR SJ 29-7 UNIT #44E AND SJ 29-7 UNIT #44C. SJ 29-7 UNIT #86N IS TWINNED ON THIS LOCATION.