

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 20 2012

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number NM - 03862
1b. Type of Well GAS	6. If Indian, All. or Tribe Unit Reporting Number NM NM - 7840A
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	
7. Unit Agreement Name San Juan 28-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	
8. Farm or Lease Name	
9. Well Number 34N	
10. Field, Pool, Wildcat Blanco MV	
11. Sec., Twn, Rge, Mer. (NMPM) Sec. 30, T28N, R4W	
12. County Rio Arriba	
13. State NM	
14. Distance in Miles from Nearest Town 45.5 miles from Bloomfield	
15. Distance from Proposed Location to Nearest Property or Lease Line 850'	
16. Acres in Lease 1917.000	
17. Acres Assigned to Well 319.63 S/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from SJ 28-4 #34/DK	
19. Proposed Depth 6307'	
20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6877' GL	
22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Arleen Kellywood</u> (Staff Regulatory Tech) Date <u>6/19/12</u>	

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 3165-3

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 13 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

NMOC

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

JUL 20 2012 ea

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JUN 20 2012

Farmington Field Office
Bureau of Land Management
AMENDED REPORT

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30414 31123		² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 74529	⁵ Property Name SAN JUAN 28-4 UNIT		⁶ Well Number 34N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		⁹ Elevation 6877

¹⁰ SURFACE LOCATION

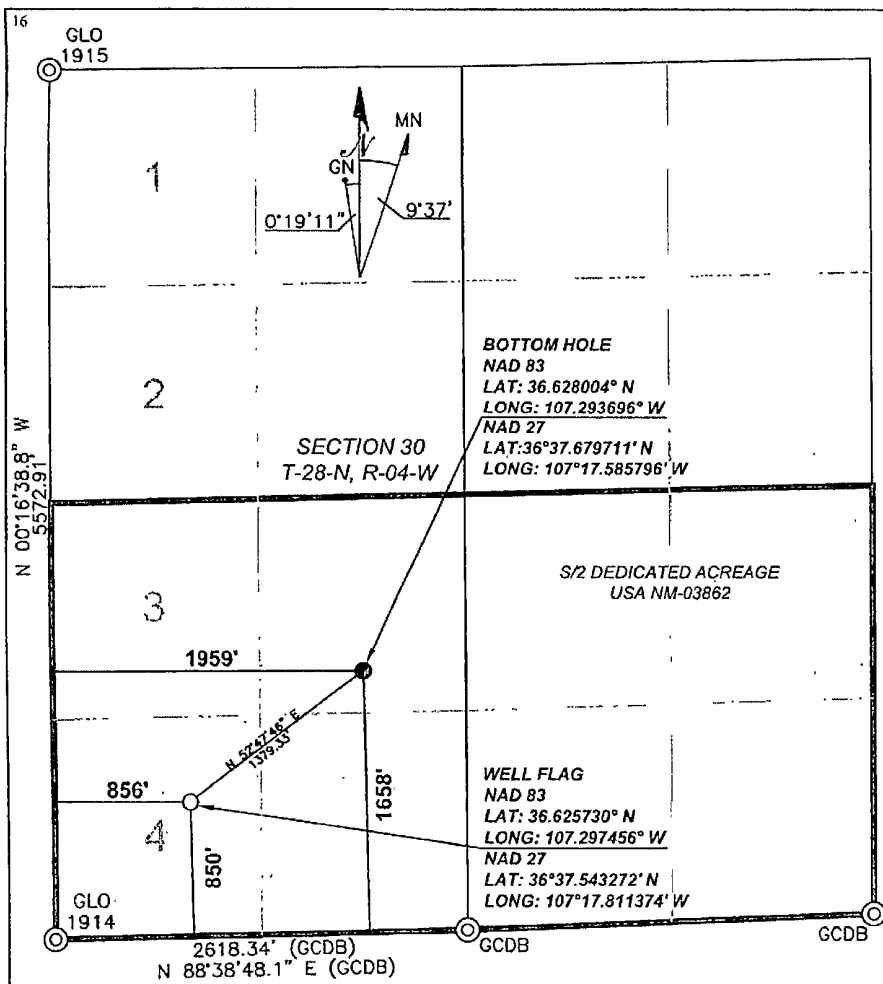
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	30	28-N	4-W	4	850	SOUTH	856	WEST	RIO ARRIBA

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
K	30	28-N	4-W		1658	SOUTH	1959	WEST	RIO ARRIBA

¹² Dedicated Acres MV 319.63 S/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.



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 the 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.

Signature: *Arleen Kellywood* Date: 1/24/12

Printed Name: Arleen Kellywood

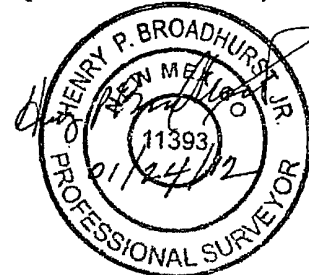
E-mail Address: arleen.r.kellywood@conocophillips.com

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: 12/14/2011

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 34N

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7654				AFE \$: 1,626,612.73	
Field Name: SAN JUAN 28-4 UNIT		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA		API #: 3003930414
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F (Charles)		Phone: +1-505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone		Zone Name					
R20002		MESAVERDE(R20002)					
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.625721		Longitude: -107.296856		X:	Y:	Section: 30	Range: 004W
Footage X: 856 FWL		Footage Y: 850 FSL		Elevation: 6877 (FT)		Township: 028N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.627995		Longitude: -107.293096		X:	Y:	Section: 30	Range: 004W
Footage X: 1959 FWL		Footage Y: 1658 FSL		Elevation: (FT)		Township: 028N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6892 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	17	6875		☐			Ground wtr at 190' md, 6819' ss base on offset well SJ 28-5 94.
Surface Casing	230	6662		☐		42	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACI	1927	4965		☐			
OJAM	3184	3708		☐			
KRLD	3351	3541		☐			
FRLD	3446	3446		☐			Possible Gas
PCCF	3807	3085		☐	1214		
LEWS	3916	2976		☐			
Intermediate Casing	4083	2809		☒		118	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 983 cuft. Circulate cement to surface.
CHRA	4780	2112		☐			
UCLFH	5410	1482		☐			
MASSIVE CLIFF HOUSE	5528	1364		☐	839	154	Gas
MENF	5619	1273		☐			
PTLK	5977	915		☐		163	Gas - Est bot perf ~230' below the top of Point Lookout.
Total Depth	6307	585		☐			6-1/4" hole, 4-1/2" 11.6 ppf, J-55, STC/LTC casing. Cement w/ 308 cuft. Circulate cement a minimum of 100' inside the presvius casing string.
MNCS	6552	340		☐		175	
Reference Wells:							
Reference Type	Well Name			Comments			
Production	SJ 28-4 #34			SW 30-28N-4W			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-4 UNIT 34N

DEVELOPMENT

Logging Program:					
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☒ Triple Combo ☒ Other					
PC data well. eap 5-19-11					
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other					
gr/cbl Est bot perf ~230' below top PNLK.					
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 28-4 Unit #34N
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6892 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6892 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-4 Unit #34N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	San Juan 28 Wells				
Site Position:		Northing:	2,042,566.26 ft	Latitude:	36° 36' 47.901 N
From:	Lat/Long	Easting:	563,690.29 ft	Longitude:	107° 36' 58.757 W
Position Uncertainty:	15.0 ft	Slot Radius:	"	Grid Convergence:	0.13 °

Well:	SJ 28-4 Unit #34N					
Well Position	+N/-S	0.0 ft	Northing:	2,047,453.67 ft	Latitude:	36° 37' 32.596 N
	+E/-W	0.0 ft	Easting:	657,424.66 ft	Longitude:	107° 17' 48.682 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,877 0 ft

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2011	3/13/2012	9 59	63.43	50,620

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	53.11

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,208.2	25.75	53.11	1,179.6	113.8	151.7	3.00	3.00	0.00	53.11	
3,510.5	25.75	53.11	3,253.4	714.1	951.6	0.00	0.00	0.00	0.00	
4,368.8	0.00	0.00	4,083.0	827.9	1,103.3	3.00	-3.00	0.00	180.00	SJ 28-4 ICP POINT
6,592.8	0.00	0.00	6,307.0	827.9	1,103.3	0.00	0.00	0.00	0.00	SJ 28-4 #34N PCP

ConocoPhillips or its affiliates
Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: San Juan 28 Wells
Well: SJ 28-4 Unit #34N
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-4 Unit #34N
TVD Reference: WELL @ 6892 0ft (Original Well Elev)
MD Reference: WELL @ 6892 0ft (Original Well Elev)
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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.50	53.11	400.0	0.4	0.5	0.7	3.00	3.00	0.00
500.0	4.50	53.11	499.8	3.5	4.7	5.9	3.00	3.00	0.00
600.0	7.50	53.11	599.3	9.8	13.1	16.3	3.00	3.00	0.00
700.0	10.50	53.11	698.0	19.2	25.6	32.0	3.00	3.00	0.00
800.0	13.50	53.11	795.8	31.7	42.2	52.8	3.00	3.00	0.00
900.0	16.50	53.11	892.4	47.2	62.9	78.6	3.00	3.00	0.00
1,000.0	19.50	53.11	987.5	65.8	87.6	109.5	3.00	3.00	0.00
1,100.0	22.50	53.11	1,080.9	87.3	116.3	145.4	3.00	3.00	0.00
1,200.0	25.50	53.11	1,172.2	111.7	148.8	186.0	3.00	3.00	0.00
1,208.2	25.75	53.11	1,179.6	113.8	151.7	189.6	3.00	3.00	0.00
1,300.0	25.75	53.11	1,262.3	137.7	183.5	229.5	0.00	0.00	0.00
1,400.0	25.75	53.11	1,352.4	163.8	218.3	272.9	0.00	0.00	0.00
1,500.0	25.75	53.11	1,442.4	189.9	253.0	316.4	0.00	0.00	0.00
1,600.0	25.75	53.11	1,532.5	216.0	287.8	359.8	0.00	0.00	0.00
1,700.0	25.75	53.11	1,622.6	242.0	322.5	403.2	0.00	0.00	0.00
1,800.0	25.75	53.11	1,712.7	268.1	357.3	446.7	0.00	0.00	0.00
1,900.0	25.75	53.11	1,802.7	294.2	392.0	490.1	0.00	0.00	0.00
1,927.0	25.75	53.11	1,827.0	301.2	401.4	501.8	0.00	0.00	0.00
Nacimiento									
2,000.0	25.75	53.11	1,892.8	320.2	426.8	533.6	0.00	0.00	0.00
2,100.0	25.75	53.11	1,982.9	346.3	461.5	577.0	0.00	0.00	0.00
2,200.0	25.75	53.11	2,072.9	372.4	496.2	620.4	0.00	0.00	0.00
2,300.0	25.75	53.11	2,163.0	398.5	531.0	663.9	0.00	0.00	0.00
2,400.0	25.75	53.11	2,253.1	424.5	565.7	707.3	0.00	0.00	0.00
2,500.0	25.75	53.11	2,343.2	450.6	600.5	750.8	0.00	0.00	0.00
2,600.0	25.75	53.11	2,433.2	476.7	635.2	794.2	0.00	0.00	0.00
2,700.0	25.75	53.11	2,523.3	502.8	670.0	837.6	0.00	0.00	0.00
2,800.0	25.75	53.11	2,613.4	528.8	704.7	881.1	0.00	0.00	0.00
2,900.0	25.75	53.11	2,703.4	554.9	739.5	924.5	0.00	0.00	0.00
3,000.0	25.75	53.11	2,793.5	581.0	774.2	968.0	0.00	0.00	0.00
3,100.0	25.75	53.11	2,883.6	607.1	809.0	1,011.4	0.00	0.00	0.00
3,184.0	25.75	53.11	2,959.2	629.0	838.1	1,047.9	0.00	0.00	0.00
Ojo Alamo									
3,200.0	25.75	53.11	2,973.7	633.1	843.7	1,054.8	0.00	0.00	0.00
3,300.0	25.75	53.11	3,063.7	659.2	878.4	1,098.3	0.00	0.00	0.00
3,351.0	25.75	53.11	3,109.7	672.5	896.2	1,120.4	0.00	0.00	0.00
Kirtland									
3,400.0	25.75	53.11	3,153.8	685.3	913.2	1,141.7	0.00	0.00	0.00
3,446.0	25.75	53.11	3,195.2	697.3	929.2	1,161.7	0.00	0.00	0.00
Fruitland									
3,500.0	25.75	53.11	3,243.9	711.4	947.9	1,185.2	0.00	0.00	0.00
3,510.5	25.75	53.11	3,253.4	714.1	951.6	1,189.7	0.00	0.00	0.00
3,600.0	23.06	53.11	3,334.8	736.3	981.2	1,226.7	3.00	-3.00	0.00
3,700.0	20.06	53.11	3,427.8	758.3	1,010.6	1,263.4	3.00	-3.00	0.00
3,800.0	17.06	53.11	3,522.6	777.4	1,036.0	1,295.3	3.00	-3.00	0.00
3,807.0	16.85	53.11	3,529.3	778.7	1,037.6	1,297.3	3.00	-3.00	0.00
Picture Cliffs									
3,900.0	14.06	53.11	3,618.9	793.5	1,057.5	1,322.1	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 28 Wells
 Well: SJ 28-4 Unit #34N
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-4 Unit #34N
 TVD Reference: WELL @ 6892 0ft (Original Well Elev)
 MD Reference: WELL @ 6892 0ft (Original Well Elev)
 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)
3,916.0	13.58	53.11	3,634.5	795.8	1,060.5	1,325.9	3.00	-3.00	0.00
Lewis									
4,000.0	11.06	53.11	3,716.5	806.6	1,074.9	1,343.9	3.00	-3.00	0.00
4,100.0	8.06	53.11	3,815.1	816.6	1,088.2	1,360.5	3.00	-3.00	0.00
4,200.0	5.06	53.11	3,914.5	823.4	1,097.3	1,371.9	3.00	-3.00	0.00
4,300.0	2.06	53.11	4,014.3	827.2	1,102.3	1,378.1	3.00	-3.00	0.00
4,368.8	0.00	0.00	4,083.0	827.9	1,103.3	1,379.3	3.00	-3.00	0.00
4,400.0	0.00	0.00	4,114.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
4,500.0	0.00	0.00	4,214.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
4,600.0	0.00	0.00	4,314.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
4,700.0	0.00	0.00	4,414.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
4,780.0	0.00	0.00	4,494.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
Chacra									
4,800.0	0.00	0.00	4,514.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
4,900.0	0.00	0.00	4,614.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,714.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,100.0	0.00	0.00	4,814.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,200.0	0.00	0.00	4,914.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,014.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,114.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,410.0	0.00	0.00	5,124.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
Upper Cliff House									
5,500.0	0.00	0.00	5,214.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,528.0	0.00	0.00	5,242.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
Massive Cliff House									
5,600.0	0.00	0.00	5,314.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,619.0	0.00	0.00	5,333.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
Menefee									
5,700.0	0.00	0.00	5,414.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,514.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,614.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
5,977.0	0.00	0.00	5,691.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
Point Lookout									
6,000.0	0.00	0.00	5,714.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,100.0	0.00	0.00	5,814.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,200.0	0.00	0.00	5,914.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,014.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,114.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,214.2	827.9	1,103.3	1,379.3	0.00	0.00	0.00
6,592.8	0.00	0.00	6,307.0	827.9	1,103.3	1,379.3	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 28 Wells
 Well: SJ 28-4 Unit #34N
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-4 Unit #34N
 TVD Reference: WELL @ 6892 0ft (Original Well Elev)
 MD Reference: WELL @ 6892 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
SJ 28-4 #34N PCP	0.00	0.00	6,307.0	827.9	1,103.2	2,048,287.72	658,523.19	36° 37' 40.783 N	107° 17' 35.148 W
- plan hits target center									
- Point									
SJ 28-4 ICP POINT	0.00	0.00	4,083.0	827.9	1,103.3	2,048,287.68	658,523.21	36° 37' 40.783 N	107° 17' 35.148 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,446.0	3,195.2	Fruitland		0.00		
3,916.0	3,634.5	Lewis		0.00		
1,927.0	1,827.0	Nacimiento		0.00		
4,780.0	4,494.2	Chacra		0.00		
5,528.0	5,242.2	Massive Cliff House		0.00		
5,410.0	5,124.2	Upper Cliff House		0.00		
3,351.0	3,109.7	Kirtland		0.00		
3,807.0	3,529.3	Picture Cliffs		0.00		
5,977.0	5,691.2	Point Lookout		0.00		
3,184.0	2,959.2	Ojo Alamo		0.00		
5,619.0	5,333.2	Menefee		0.00		

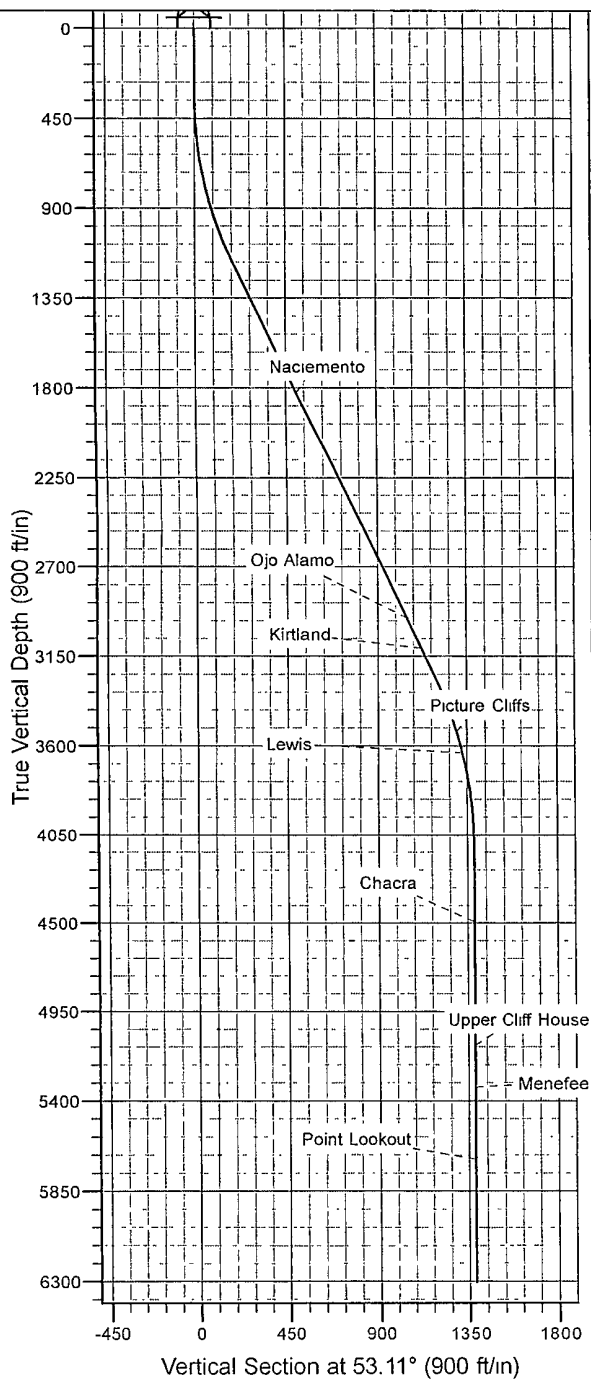
REFERENCE INFORMATION

WELL @ 6892.0ft (Original Well Elev)
Ground Elevation 6877.0
Reference Lat: 36° 37' 32.596 N
Reference Long: 107° 17' 48.682 W

Project: San Juan Basin - New Mexico West W
Site: San Juan 28 Wells
Well: SJ 28-4 Unit #34N
Wellbore: Wellbore #1
Design: Plan #1

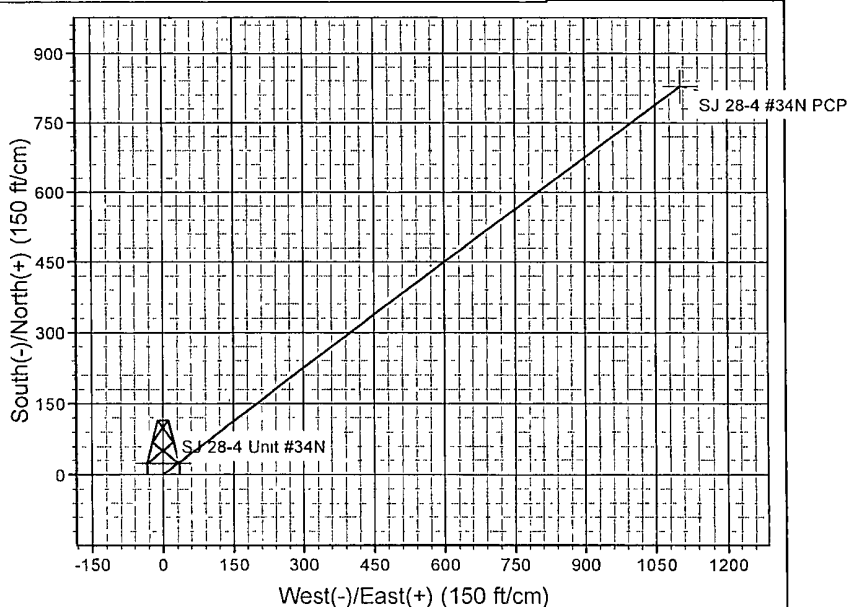
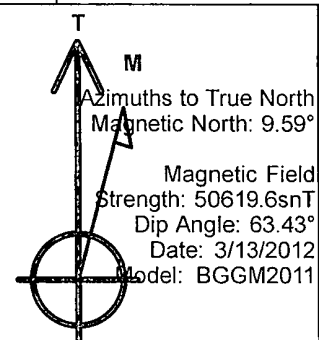
SECTION DETAILS

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	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1208.2	25.75	53.11	1179.6	113.8	151.7	3.00	53.11	189.6	
4	3510.5	25.75	53.11	3253.4	714.1	951.6	0.00	0.00	1189.7	
5	4368.8	0.00	0.00	4083.0	827.9	1103.3	3.00	180.00	1379.3	SJ 28-4 #34N ICP
6	6592.8	0.00	0.00	6307.0	827.9	1103.3	0.00	0.00	1379.3	SJ 28-4 #34N PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1827.0	1927.0	Nacimiento
2959.2	3184.0	Ojo Alamo
3109.7	3351.0	Kirtland
3195.2	3446.0	Fruitland
3529.3	3807.0	Picture Cliffs
3634.5	3916.0	Lewis
4494.2	4780.0	Chacra
5124.2	5410.0	Upper Cliff House
5242.2	5528.0	Massive Cliff House
5333.2	5619.0	Menefee
5691.2	5977.0	Point Lookout



BURLINGTON RESOURCES OIL AND GAS COMPANY LP

SAN JUAN 28-4 UNIT 34N

850' FSL, 856' FWL

SECTION 30, T28N, R04W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

NAD 83 LAT.: 36.625730° N LONG.: 107.297456° W

ELEV. 6,877' NAVD88

NO NEW ACCESS

DRIVING DIRECTIONS TO: SAN JUAN 28-4 UNIT #34N

FROM BLOOMFIELD N.M. AT INTERSECTION OF HWY. 550 & HWY. 64:

- TRAVEL EAST ON HWY. 64 FOR 36.4 MILES, (TO MILE POST 101.1). TURN RIGHT (BY GOBERNADOR SCHOOL) ON AMERICAN GENERAL ROAD.
- GO 1.0 MILES SOUTH. TURN LEFT ONTO ARNOLD RANCH ROAD.
- GO 7.4 MILES SOUTH EAST ON ARNOLD RANCH ROAD. TURN LEFT INTO MUNOZ CANYON.
- GO: 0.4 MILES EAST INTO CANYON. STAY LEFT & CROSS MUNOZ WASH.
- GO 0.3 MILES UP ONTO NORTH SIDE OF CANYON TO LOCATION FOR SJ 28-4 UNIT 34. NEW WELL STAKED HERE.