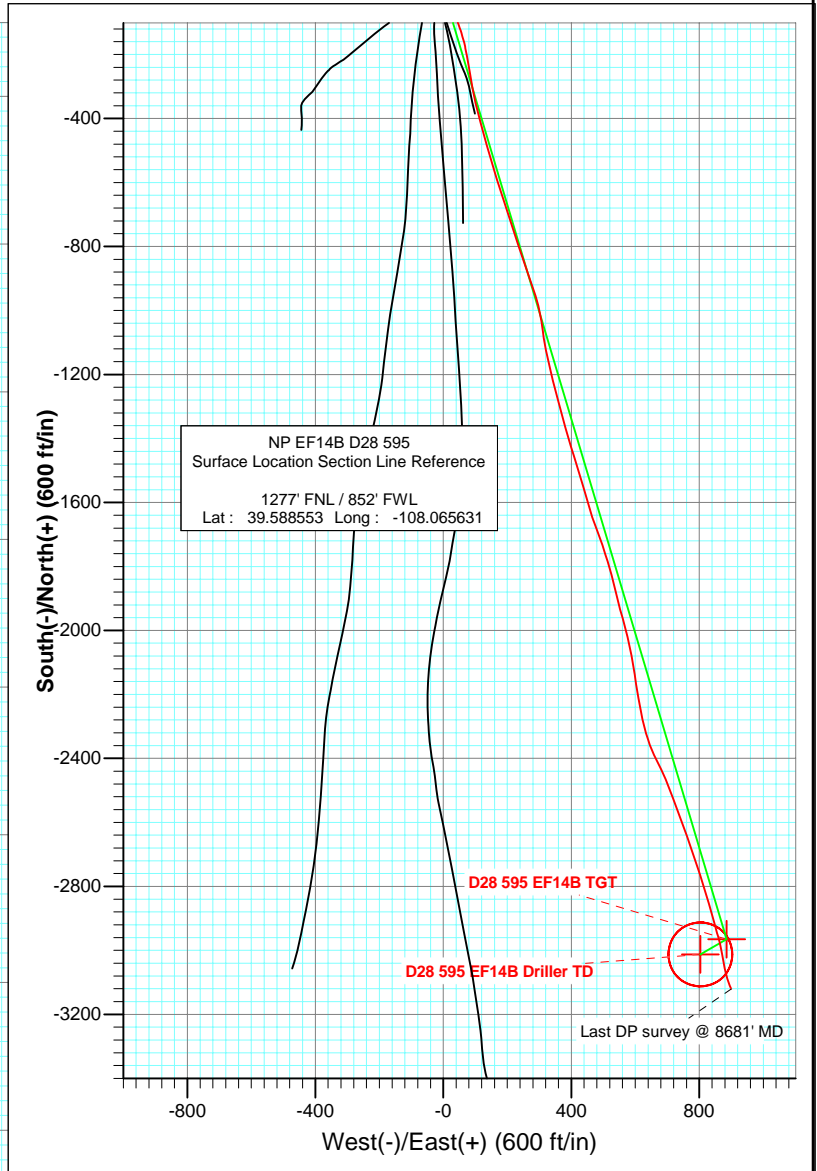
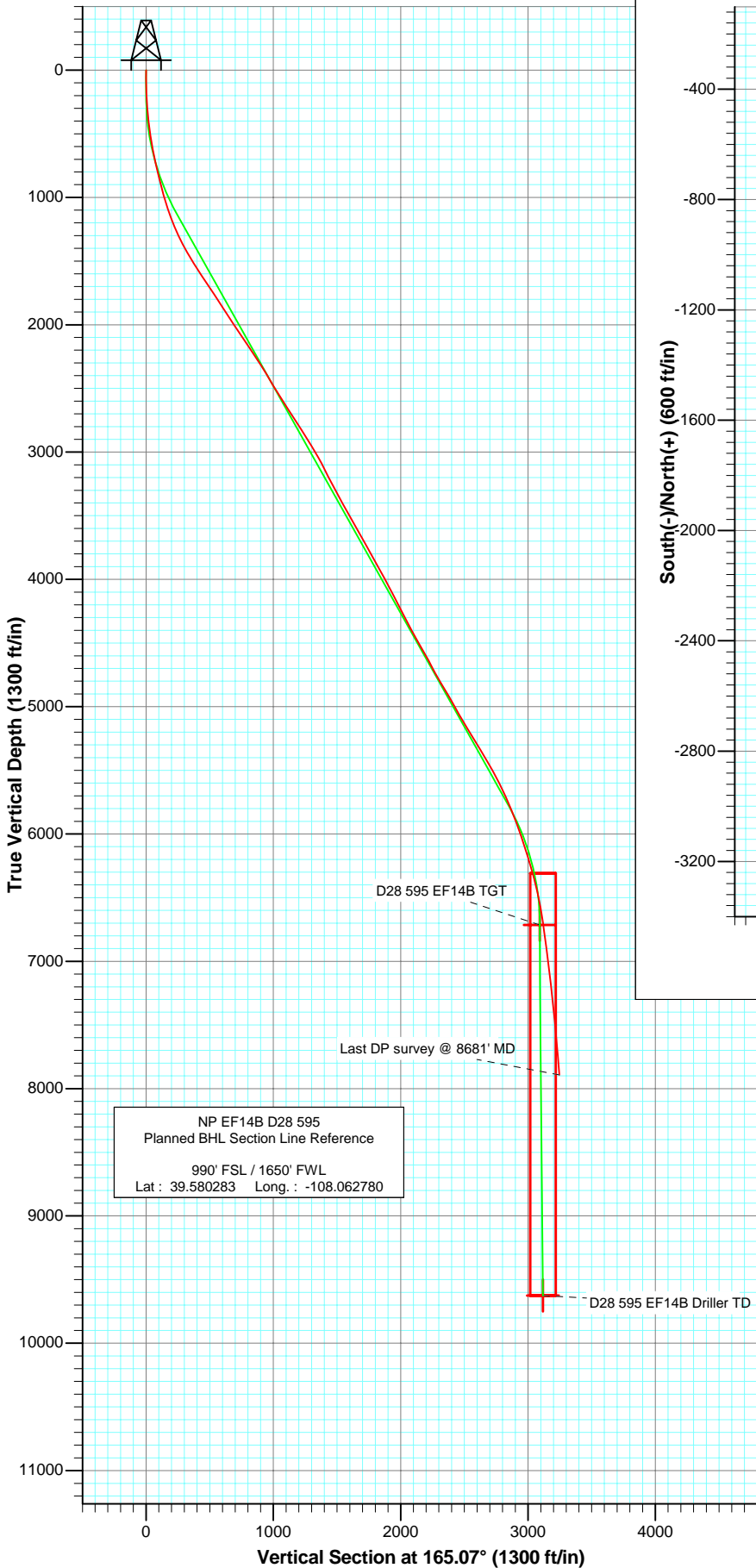




Project: N. Piceance
 Site: D28 595 Pad (NWNW S28-T5S-R95W)
 Well: NP EF14B D28 595
 Wellbore: DD
 Plan: Final Survey



Azimuths to True North
 Magnetic North: 10.89°
 Magnetic Field
 Strength: 52706.2snT
 Dip Angle: 65.92°
 Date: 7/9/2007
 Model: IGRF200510

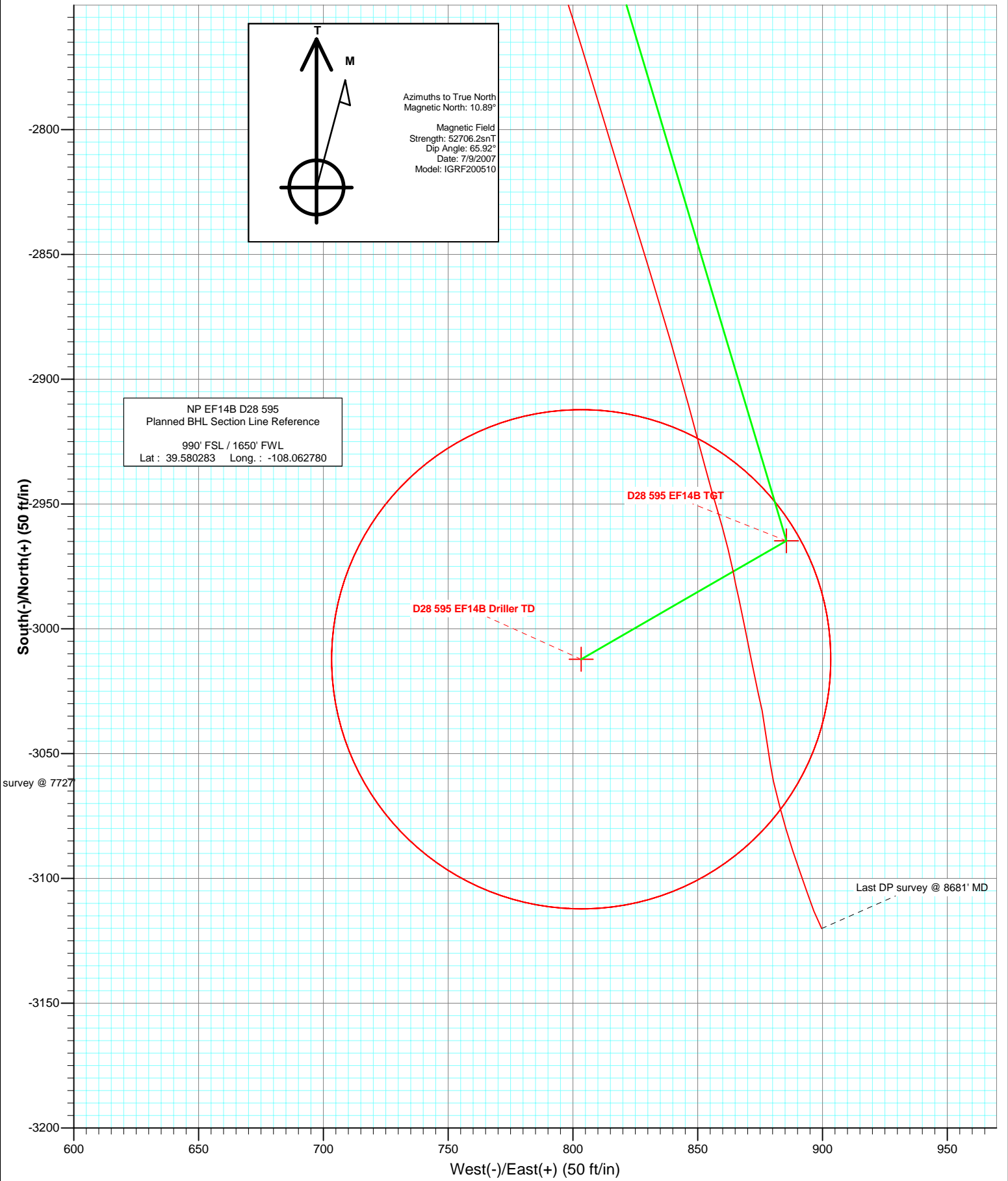
DESIGN DETAILS: DD

Job# 75296; LR
 KB @ 6215.0ft (TBD)

Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
D28 595 EF14B Driller TD	165.07	Slot	0.0	0.0	0.0	0.0	0.0



Project: N. Piceance
Site: D28 595 Pad (NWNW S28-T5S-R95W)
Well: NP EF14B D28 595
Wellbore: DD
Plan: Final Zoom



Azimuths to True North
Magnetic North: 10.89°
Magnetic Field
Strength: 52706.2snT
Dip Angle: 65.92°
Date: 7/9/2007
Model: IGRF200510

NP EF14B D28 595
Planned BHL Section Line Reference
990' FSL / 1650' FWL
Lat : 39.580283 Long : -108.062780

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP EF14B D28 595
Project: N. Piceance	TVD Reference: KB @ 6215.0ft (TBD)
Site: D28 595 Pad (NWNW S28-T5S-R95W)	MD Reference: KB @ 6215.0ft (TBD)
Well: NP EF14B D28 595	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: EDM 2003.16 US Multi User Db

Project N. Piceance, Garfield County, CO		
Map System: US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site D28 595 Pad (NWNW S28-T5S-R95W)				
Site Position:	Northing:	1,649,477.39 ft	Latitude:	39.588575
From: Lat/Long	Easting:	2,276,991.05 ft	Longitude:	-108.065756
Position Uncertainty: 0.0 ft	Slot Radius: 0"		Grid Convergence:	-1.62 °

Well NP EF14B D28 595				
Well Position	+N/-S	0.0 ft	Northing:	1,649,468.31 ft
	+E/-W	0.0 ft	Easting:	2,277,026.04 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Latitude:	39.588553
			Longitude:	-108.065631
			Ground Level:	6,193.0 ft

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/9/2007	10.89	65.92	52,706

Design DD				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	165.07

Survey Program		Date 7/23/2007
From (ft)	To (ft)	Survey (Wellbore)
203.0	2,482.0	Survey #1-SH (DD)
2,593.0	7,441.0	Survey #2-MH (DD)
7,536.0	8,681.0	Survey #3-Corr (DD)
		Tool Name
		MWD
		MWD
		MWD
		Description
		Geolink MWD
		Geolink MWD
		Geolink MWD

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	1.28	151.70	100.0	-1.0	0.5	1.1	1.28	1.28	1.28	
200.0	2.56	151.70	199.9	-3.9	2.1	4.3	1.28	1.28	1.28	
300.0	4.12	147.16	299.8	-8.7	5.3	9.8	1.58	1.58	1.56	
400.0	6.49	155.12	399.3	-16.8	9.6	18.7	2.48	2.48	2.37	
500.0	8.60	152.13	498.4	-28.8	15.2	31.7	2.14	2.14	2.11	
600.0	10.67	155.74	597.0	-43.7	22.8	48.1	2.16	2.16	2.07	
700.0	12.03	158.86	695.0	-62.1	30.3	67.8	1.49	1.49	1.36	
800.0	13.24	158.27	792.6	-82.6	38.5	89.7	1.22	1.22	1.21	
900.0	14.10	159.64	889.8	-104.5	46.9	113.1	0.92	0.92	0.86	
1,000.0	15.70	162.54	986.3	-129.1	55.7	139.1	1.76	1.76	1.60	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP EF14B D28 595
Project: N. Piceance	TVD Reference: KB @ 6215.0ft (TBD)
Site: D28 595 Pad (NWNW S28-T5S-R95W)	MD Reference: KB @ 6215.0ft (TBD)
Well: NP EF14B D28 595	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: EDM 2003.16 US Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,100.0	18.06	165.26	1,082.1	-156.5	63.6	167.6	2.49	2.49	2.36	
1,200.0	21.46	169.59	1,176.1	-189.9	71.0	201.7	3.71	3.71	3.41	
1,300.0	23.68	169.69	1,268.5	-227.4	77.7	239.8	2.22	2.22	2.22	
1,400.0	27.44	170.03	1,358.8	-269.7	85.4	282.6	3.76	3.76	3.76	
1,500.0	30.40	169.03	1,446.2	-317.6	93.8	331.0	3.00	3.00	2.96	
1,600.0	32.47	166.02	1,531.5	-368.5	105.2	383.2	2.60	2.60	2.08	
1,617.0	32.80	165.60	1,545.8	-377.4	107.4	392.4	2.34	2.34	1.92	Last DP Svy at 1617'
1,700.0	32.68	165.20	1,615.7	-420.8	118.5	437.1	0.30	0.30	-0.15	
1,800.0	33.89	164.48	1,699.3	-473.5	133.4	491.9	1.27	1.27	1.21	
1,900.0	34.12	163.53	1,782.1	-527.5	148.8	548.0	0.57	0.57	0.23	
2,000.0	32.79	163.57	1,865.4	-580.5	164.6	603.3	1.33	1.33	-1.32	
2,100.0	32.87	162.89	1,949.6	-632.1	180.4	657.2	0.38	0.38	0.08	
2,200.0	33.64	161.25	2,033.1	-684.4	197.2	712.1	1.18	1.18	0.77	
2,300.0	34.10	161.20	2,116.4	-736.9	214.8	767.4	0.46	0.46	0.46	
2,400.0	34.27	161.38	2,198.9	-790.4	232.9	823.7	0.20	0.20	0.17	
2,500.0	33.17	161.27	2,282.1	-843.0	250.7	879.1	1.10	1.10	-1.09	
2,600.0	31.81	161.13	2,366.4	-893.9	268.1	932.8	1.36	1.36	-1.36	
2,700.0	31.19	162.23	2,452.2	-942.6	284.3	984.1	0.85	0.85	-0.62	
2,800.0	30.74	166.55	2,537.8	-992.2	298.7	1,035.7	2.26	2.26	-0.45	
2,900.0	32.56	171.25	2,623.1	-1,043.6	307.9	1,087.7	3.06	3.06	1.82	
3,000.0	34.13	170.56	2,706.3	-1,098.4	316.0	1,142.8	1.61	1.61	1.57	
3,100.0	32.30	168.10	2,789.8	-1,152.4	326.8	1,197.7	2.27	2.27	-1.83	
3,200.0	31.88	166.46	2,874.1	-1,204.8	339.2	1,251.6	0.96	0.96	-0.42	
3,300.0	31.16	165.21	2,959.6	-1,255.2	351.6	1,303.4	0.98	0.98	-0.73	
3,400.0	29.22	165.27	3,045.9	-1,303.9	364.7	1,353.9	1.93	1.93	-1.93	
3,500.0	27.51	164.74	3,134.0	-1,349.6	376.6	1,401.1	1.73	1.73	-1.71	
3,600.0	27.34	163.34	3,222.9	-1,393.6	389.3	1,446.9	0.66	0.66	-0.18	
3,700.0	27.95	162.78	3,311.5	-1,437.9	402.9	1,493.2	0.67	0.67	0.61	
3,800.0	28.82	163.09	3,399.5	-1,483.3	416.9	1,540.7	0.89	0.89	0.88	
3,900.0	29.17	163.67	3,486.9	-1,529.9	430.8	1,589.2	0.45	0.45	0.35	
4,000.0	29.52	163.08	3,574.1	-1,576.9	444.7	1,638.2	0.45	0.45	0.34	
4,100.0	29.94	163.41	3,660.9	-1,624.3	459.1	1,687.8	0.45	0.45	0.42	
4,200.0	29.45	159.25	3,747.8	-1,671.4	474.7	1,737.3	2.12	2.12	-0.49	
4,300.0	29.02	160.24	3,835.0	-1,717.1	491.8	1,785.9	0.65	0.65	-0.43	
4,400.0	28.50	163.89	3,922.7	-1,762.9	506.6	1,833.9	1.83	1.83	-0.52	
4,500.0	28.40	162.76	4,010.6	-1,808.5	520.4	1,881.5	0.54	0.54	-0.10	
4,600.0	28.27	165.95	4,098.6	-1,854.3	533.2	1,929.1	1.52	1.52	-0.14	
4,700.0	26.46	167.48	4,187.5	-1,898.8	543.3	1,974.7	1.94	1.94	-1.80	
4,800.0	27.59	163.89	4,276.6	-1,942.8	554.9	2,020.2	1.98	1.98	1.12	
4,900.0	28.32	164.94	4,364.9	-1,988.0	567.7	2,067.2	0.88	0.88	0.73	
5,000.0	28.87	167.46	4,452.8	-2,034.3	579.0	2,114.8	1.33	1.33	0.55	
5,100.0	29.67	169.31	4,539.8	-2,082.5	589.0	2,164.0	1.21	1.21	0.80	
5,200.0	28.54	171.35	4,627.1	-2,130.7	597.1	2,212.6	1.50	1.50	-1.13	
5,300.0	28.92	171.01	4,715.3	-2,177.3	604.0	2,259.4	0.41	0.41	0.38	
5,400.0	30.34	169.74	4,801.8	-2,226.7	612.5	2,309.3	1.56	1.56	1.42	
5,500.0	30.13	167.53	4,888.2	-2,276.1	622.1	2,359.5	1.13	1.13	-0.21	
5,600.0	30.40	163.37	4,974.7	-2,324.8	634.6	2,409.8	2.12	2.12	0.27	
5,700.0	30.50	157.36	5,060.8	-2,372.7	651.5	2,460.4	3.05	3.05	0.10	
5,800.0	30.05	153.61	5,147.1	-2,418.4	672.8	2,510.1	1.94	1.94	-0.44	
5,900.0	32.01	157.65	5,233.1	-2,464.6	694.4	2,560.4	2.86	2.86	1.96	
6,000.0	31.84	158.97	5,317.7	-2,514.4	713.8	2,613.4	0.72	0.72	-0.17	
6,100.0	30.45	159.62	5,403.2	-2,562.8	732.1	2,664.9	1.44	1.44	-1.39	
6,200.0	28.88	159.98	5,490.1	-2,609.2	749.2	2,714.2	1.58	1.58	-1.57	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP EF14B D28 595
Project: N. Piceance	TVD Reference: KB @ 6215.0ft (TBD)
Site: D28 595 Pad (NWNW S28-T5S-R95W)	MD Reference: KB @ 6215.0ft (TBD)
Well: NP EF14B D28 595	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: EDM 2003.16 US Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,300.0	27.71	160.12	5,578.2	-2,653.7	765.1	2,761.3	1.17	1.17	-1.17	
6,400.0	25.42	160.74	5,667.7	-2,695.9	780.1	2,805.8	2.30	2.30	-2.29	
6,500.0	23.41	161.89	5,758.7	-2,735.0	793.3	2,847.1	2.06	2.06	-2.01	
6,600.0	21.39	162.90	5,851.2	-2,771.3	804.8	2,885.1	2.05	2.05	-2.02	
6,700.0	19.80	163.39	5,944.8	-2,805.0	815.0	2,920.3	1.60	1.60	-1.59	
6,800.0	18.17	162.90	6,039.4	-2,835.9	824.4	2,952.5	1.63	1.63	-1.63	
6,900.0	17.78	163.20	6,134.5	-2,865.6	833.5	2,983.6	0.40	0.40	-0.39	
7,000.0	16.59	164.21	6,230.0	-2,894.0	841.8	3,013.2	1.23	1.23	-1.19	
7,100.0	15.21	164.96	6,326.2	-2,920.4	849.0	3,040.5	1.40	1.40	-1.38	
7,200.0	13.62	164.26	6,423.0	-2,944.6	855.5	3,065.6	1.60	1.60	-1.59	
7,300.0	11.45	165.72	6,520.6	-2,965.5	861.6	3,087.3	2.19	2.19	-2.17	
7,400.0	9.43	167.75	6,619.0	-2,983.1	865.4	3,105.3	2.05	2.05	-2.02	
7,441.0	8.70	166.80	6,659.4	-2,989.4	866.8	3,111.8	1.82	1.82	-1.79	Last DP Survey @ 7441' MD
7,492.1	8.10	168.56	6,710.0	-2,996.7	868.4	3,119.2	1.27	1.27	-1.17	D28 595 EF14B TGT
7,500.0	8.01	168.86	6,717.8	-2,997.8	868.6	3,120.4	1.27	1.27	-1.16	
7,600.0	7.68	166.72	6,816.9	-3,010.9	871.2	3,133.7	0.45	0.45	-0.34	
7,700.0	7.39	168.34	6,916.0	-3,023.7	874.1	3,146.8	0.36	0.36	-0.29	
7,800.0	7.11	170.07	7,015.2	-3,036.1	876.4	3,159.4	0.36	0.36	-0.28	
7,900.0	6.84	171.95	7,114.5	-3,048.1	878.3	3,171.5	0.36	0.36	-0.27	
8,000.0	6.24	168.30	7,213.8	-3,059.5	880.0	3,182.9	0.73	0.73	-0.60	
8,100.0	6.01	165.63	7,313.3	-3,069.8	882.5	3,193.5	0.36	0.36	-0.23	
8,200.0	5.62	163.07	7,412.8	-3,079.6	885.2	3,203.7	0.46	0.46	-0.39	
8,300.0	5.50	162.50	7,512.3	-3,088.8	888.1	3,213.4	0.14	0.14	-0.12	
8,400.0	5.11	160.08	7,611.9	-3,097.5	891.1	3,222.6	0.45	0.45	-0.39	
8,500.0	5.24	161.58	7,711.5	-3,106.1	894.0	3,231.6	0.19	0.19	0.13	
8,600.0	4.67	157.45	7,811.1	-3,114.2	897.0	3,240.2	0.68	0.68	-0.57	D28 595 EF14B Driller TD

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
D28 595 EF14B Driller T	0.00	0.00	9,625.0	-3,012.2	803.3	1,646,434.65	2,277,744.00	39.580283	-108.062780	
- actual wellpath misses by 1819.2ft at 8600.0ft MD (7811.1 TVD, -3114.2 N, 897.0 E)										
- Circle (radius 100.0)										
D28 595 EF14B TGT	0.00	0.00	6,714.0	-2,964.7	885.6	1,646,479.78	2,277,827.54	39.580414	-108.062489	
- actual wellpath misses by 36.5ft at 7492.2ft MD (6710.0 TVD, -2996.7 N, 868.4 E)										
- Point										

Checked By: _____ Approved By: _____ Date: _____