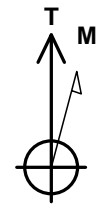
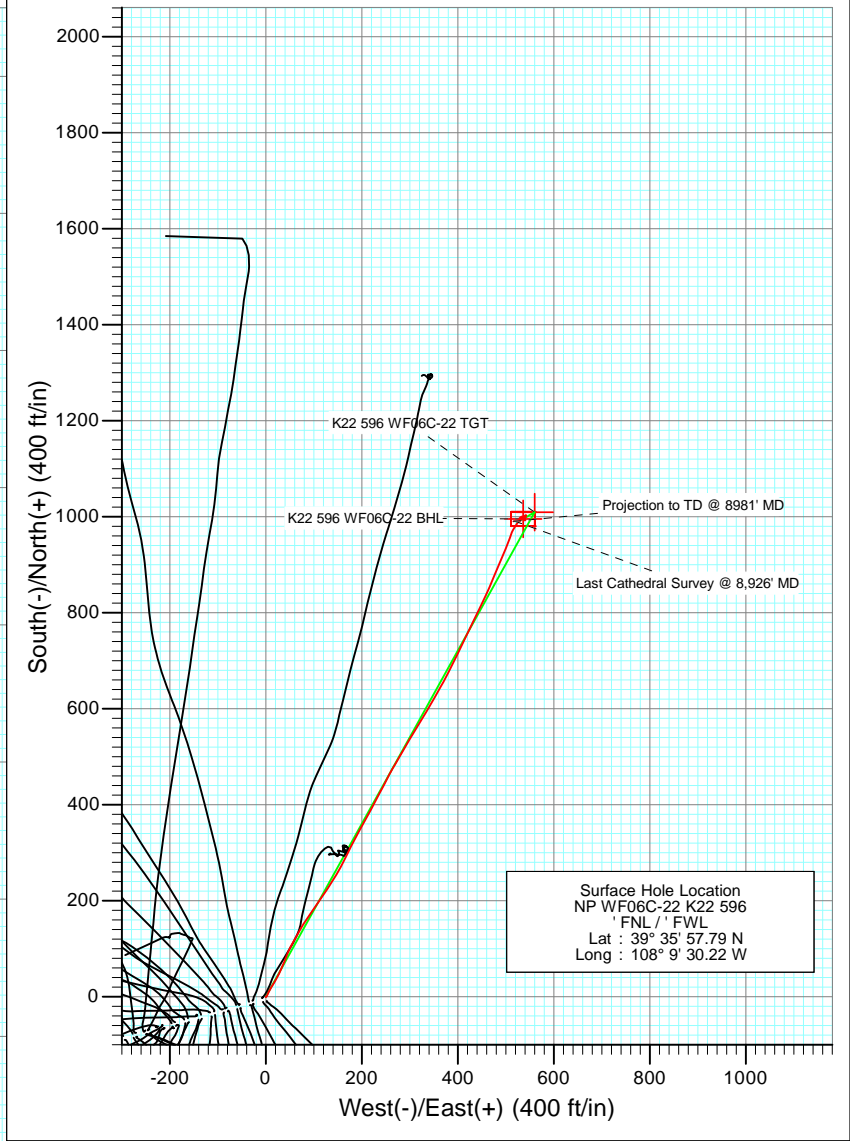
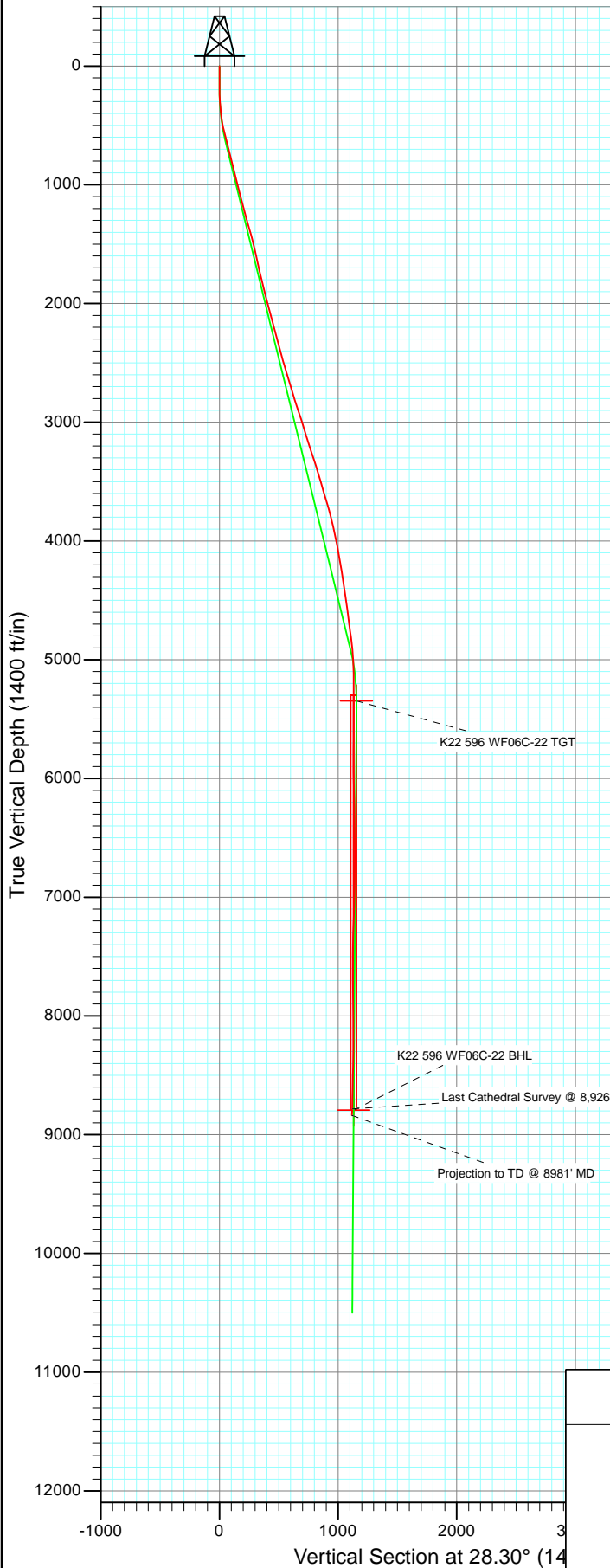




Project: North Piceance
 Site: K22 596 Pad (S22-T5S-R96W)
 Well: NP WF06C-22 K22 596
 Wellbore: DD
 Design: Fina Survey

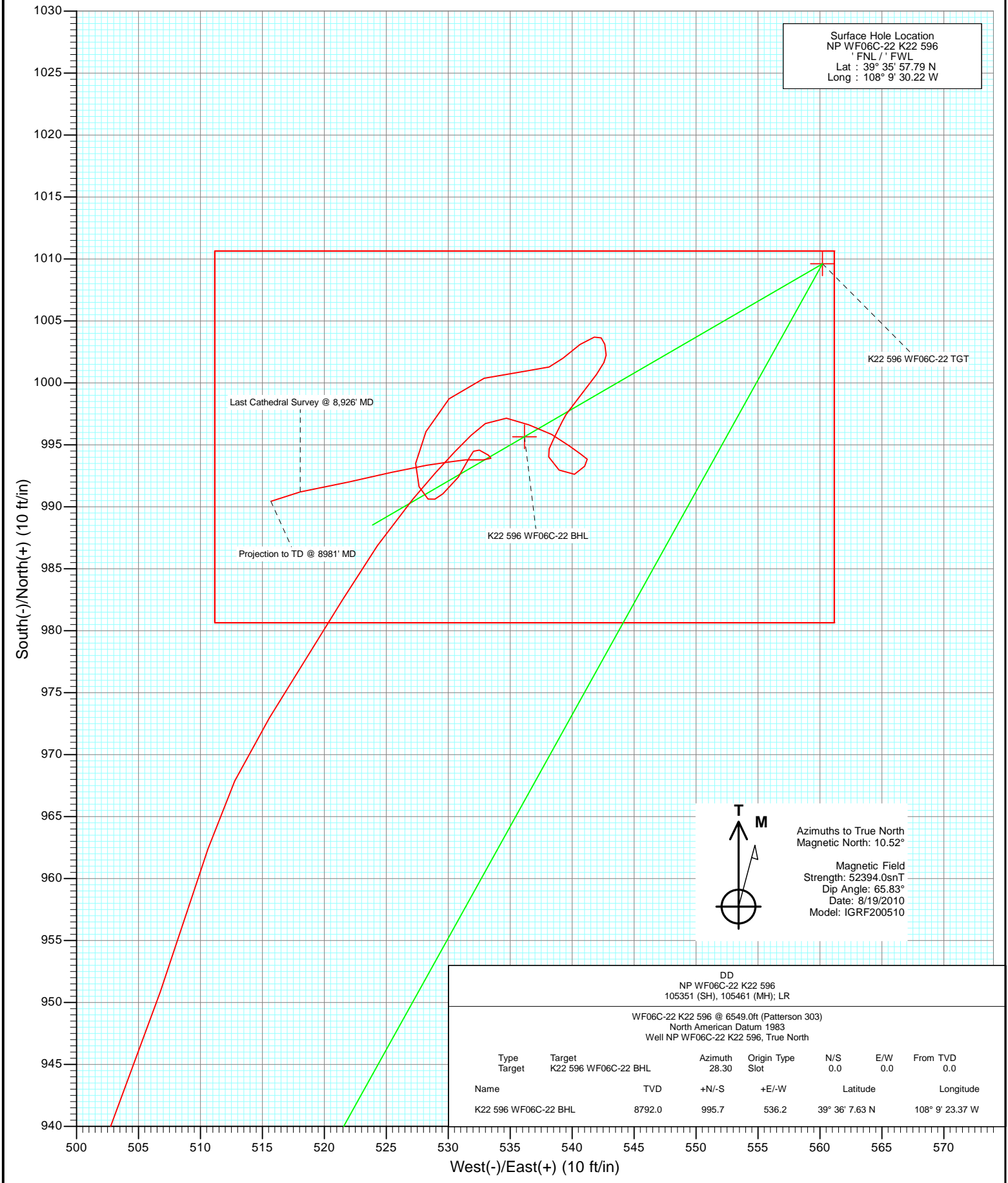


Azimuths to True North
 Magnetic North: 10.52°
 Magnetic Field
 Strength: 52394.0snT
 Dip Angle: 65.83°
 Date: 8/19/2010
 Model: IGRF200510

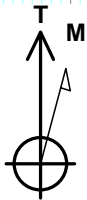
DD NP WF06C-22 K22 596 105351 (SH), 105461 (MH); LR						
WF06C-22 K22 596 @ 6549.0ft (Patterson 303) North American Datum 1983 Well NP WF06C-22 K22 596, True North						
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
Target	K22 596 WF06C-22 BHL	28.30	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
K22 596 WF06C-22 BHL	8792.0	995.7	536.2	39° 36' 7.63 N	108° 9' 23.37 W	



Project: North Piceance
 Site: K22 596 Pad (S22-T5S-R96W)
 Well: NP WF06C-22 K22 596
 Wellbore: DD
 Design: Final Survey



Surface Hole Location
 NP WF06C-22 K22 596
 FNL / FWL
 Lat : 39° 35' 57.79 N
 Long : 108° 9' 30.22 W



Azimuths to True North
 Magnetic North: 10.52°

Magnetic Field
 Strength: 52394.0snT
 Dip Angle: 65.83°
 Date: 8/19/2010
 Model: IGRF200510

DD NP WF06C-22 K22 596 105351 (SH), 105461 (MH); LR						
WF06C-22 K22 596 @ 6549.0ft (Patterson 303) North American Datum 1983 Well NP WF06C-22 K22 596, True North						
Type	Target		Azimuth	Origin Type	N/S	E/W
Target	K22 596 WF06C-22 BHL		28.30	Slot	0.0	0.0
Name		TVD	+N/-S	+E/-W	Latitude	Longitude
K22 596 WF06C-22 BHL		8792.0	995.7	536.2	39° 36' 7.63 N	108° 9' 23.37 W

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP WF06C-22 K22 596
Project: North Piceance	TVD Reference: WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Site: K22 596 Pad (S22-T5S-R96W)	MD Reference: WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Well: NP WF06C-22 K22 596	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: USA EDM 5000 Multi Users DB

Project North Piceance		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site K22 596 Pad (S22-T5S-R96W)					
Site Position:	Northing: 1,654,096.85 ft	Latitude: 39° 35' 57.02 N			
From: Lat/Long	Easting: 2,250,762.90 ft	Longitude: 108° 9' 33.39 W			
Position Uncertainty: 0.0 ft	Slot Radius: 0.000 in	Grid Convergence: -1.68 °			

Well NP WF06C-22 K22 596					
Well Position	+N/-S 0.0 ft	Northing: 1,654,167.52 ft	Latitude: 39° 35' 57.79 N		
	+E/-W 0.0 ft	Easting: 2,251,013.21 ft	Longitude: 108° 9' 30.22 W		
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 6,527.0 ft		

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/19/2010	10.52	65.83	52,394

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	28.30	

Survey Program		Date 8/30/2011
From (ft)	To (ft)	Survey (Wellbore)
164.0	8,981.0	Survey #1 (DD)
		Tool Name MWD
		Description Geolink MWD

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
164.0	0.20	214.10	164.0	-0.2	-0.2	-0.3	0.12	0.12	
193.0	0.40	73.50	193.0	-0.3	-0.1	-0.3	1.96	0.69	
224.0	1.50	62.80	224.0	0.0	0.4	0.1	3.58	3.55	
254.0	2.60	49.70	254.0	0.6	1.2	1.1	3.96	3.67	
284.0	3.50	32.10	283.9	1.8	2.2	2.7	4.30	3.00	
314.0	4.20	25.50	313.9	3.6	3.2	4.7	2.76	2.33	
344.0	5.00	23.50	343.8	5.8	4.2	7.1	2.72	2.67	
375.0	6.20	25.90	374.6	8.5	5.5	10.1	3.94	3.87	
405.0	6.50	28.20	404.4	11.5	7.0	13.4	1.31	1.00	
435.0	7.10	28.50	434.2	14.6	8.7	16.9	2.00	2.00	
466.0	8.80	28.90	464.9	18.3	10.7	21.2	5.49	5.48	
496.0	10.50	30.60	494.5	22.7	13.2	26.3	5.75	5.67	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP WF06C-22 K22 596
Project:	North Piceance	TD Reference:	WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Site:	K22 596 Pad (S22-T5S-R96W)	MVD Reference:	WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Well:	NP WF06C-22 K22 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
545.0	13.80	30.40	542.4	31.6	18.5	36.6	6.74	6.73	
591.0	15.40	28.80	586.9	41.7	24.2	48.2	3.59	3.48	
682.0	14.10	23.10	674.9	62.5	34.3	71.3	2.14	-1.43	
774.0	13.40	19.60	764.3	82.8	42.3	93.0	1.18	-0.76	
865.0	14.30	26.80	852.6	102.8	50.9	114.6	2.13	0.99	
957.0	14.20	30.70	941.8	122.6	61.8	137.3	1.05	-0.11	
1,048.0	13.80	28.30	1,030.1	141.8	72.7	159.3	0.77	-0.44	
1,139.0	15.00	34.30	1,118.3	161.1	84.4	181.8	2.10	1.32	
1,231.0	15.20	35.40	1,207.1	180.7	98.1	205.7	0.38	0.22	
1,322.0	15.70	34.30	1,294.8	200.6	112.0	229.7	0.64	0.55	
1,414.0	16.00	33.90	1,383.3	221.4	126.1	254.7	0.35	0.33	
1,506.0	14.20	31.10	1,472.1	241.6	139.0	278.6	2.11	-1.96	
1,597.0	13.50	30.60	1,560.5	260.3	150.1	300.4	0.78	-0.77	
1,650.0	12.80	29.30	1,612.1	270.8	156.2	312.4	1.43	-1.32	
1,789.0	12.40	24.30	1,747.7	297.8	169.8	342.7	0.84	-0.29	
1,881.0	14.60	28.50	1,837.2	317.0	179.4	364.2	2.62	2.39	
1,973.0	14.10	28.30	1,926.3	337.1	190.3	387.0	0.55	-0.54	
2,064.0	13.50	28.50	2,014.7	356.1	200.6	408.7	0.66	-0.66	
2,156.0	15.90	28.40	2,103.7	376.7	211.7	432.0	2.61	2.61	
2,247.0	15.60	28.10	2,191.3	398.4	223.4	456.7	0.34	-0.33	
2,339.0	15.60	27.70	2,279.9	420.3	235.0	481.5	0.12	0.00	
2,430.0	15.00	27.60	2,367.6	441.6	246.1	505.5	0.66	-0.66	
2,522.0	14.20	27.80	2,456.7	462.1	256.9	528.7	0.87	-0.87	
2,613.0	17.10	30.00	2,544.3	483.6	268.8	553.2	3.25	3.19	
2,705.0	17.20	30.60	2,632.2	507.0	282.5	580.3	0.22	0.11	
2,796.0	15.80	29.90	2,719.4	529.3	295.5	606.2	1.55	-1.54	
2,888.0	18.00	31.70	2,807.5	552.3	309.2	632.9	2.46	2.39	
2,979.0	18.70	31.20	2,893.8	576.7	324.2	661.5	0.79	0.77	
3,070.0	17.80	30.20	2,980.3	601.2	338.7	689.9	1.05	-0.99	
3,162.0	17.10	30.10	3,068.0	625.1	352.6	717.5	0.76	-0.76	
3,253.0	16.40	29.10	3,155.2	647.9	365.6	743.7	0.83	-0.77	
3,345.0	18.80	27.20	3,242.9	672.4	378.7	771.5	2.68	2.61	
3,436.0	18.20	26.30	3,329.1	698.2	391.7	800.4	0.73	-0.66	
3,528.0	16.70	25.40	3,416.9	723.0	403.7	828.0	1.66	-1.63	
3,619.0	16.50	24.90	3,504.1	746.5	414.7	853.9	0.27	-0.22	
3,710.0	16.30	27.40	3,591.4	769.6	426.1	879.6	0.81	-0.22	
3,802.0	16.50	25.80	3,679.7	792.8	437.7	905.6	0.54	0.22	
3,893.0	15.10	25.10	3,767.2	815.2	448.3	930.3	1.55	-1.54	
3,985.0	13.10	24.90	3,856.5	835.5	457.8	952.7	2.17	-2.17	
4,076.0	12.30	23.80	3,945.2	853.7	466.1	972.6	0.92	-0.88	
4,168.0	11.00	23.00	4,035.3	870.8	473.5	991.1	1.42	-1.41	
4,259.0	9.70	21.30	4,124.9	885.9	479.6	1,007.4	1.47	-1.43	
4,351.0	9.20	23.90	4,215.6	899.8	485.4	1,022.4	0.71	-0.54	
4,442.0	9.30	24.20	4,305.4	913.2	491.4	1,037.0	0.12	0.11	
4,534.0	8.70	23.30	4,396.3	926.4	497.2	1,051.4	0.67	-0.65	
4,625.0	8.40	21.50	4,486.3	938.9	502.3	1,064.8	0.44	-0.33	
4,716.0	7.70	18.90	4,576.4	950.8	506.8	1,077.4	0.87	-0.77	
4,808.0	7.50	18.00	4,667.6	962.4	510.6	1,089.4	0.25	-0.22	
4,900.0	7.20	32.50	4,758.8	972.9	515.6	1,101.1	2.04	-0.33	
4,991.0	6.90	30.90	4,849.1	982.4	521.4	1,112.2	0.39	-0.33	
5,083.0	5.60	40.00	4,940.6	990.6	527.2	1,122.1	1.77	-1.41	
5,174.0	3.20	46.60	5,031.3	995.8	531.9	1,128.9	2.69	-2.64	
5,266.0	1.30	111.60	5,123.3	997.2	534.7	1,131.5	3.15	-2.07	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP WF06C-22 K22 596
Project:	North Piceance	TVD Reference:	WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Site:	K22 596 Pad (S22-T5S-R96W)	MD Reference:	WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Well:	NP WF06C-22 K22 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
5,357.0	1.10	100.50	5,214.2	996.6	536.5	1,131.8	0.34	-0.22	
5,450.0	1.40	122.40	5,307.2	995.8	538.3	1,132.0	0.60	0.32	
5,541.0	0.70	124.60	5,398.2	994.9	539.7	1,131.9	0.77	-0.77	
5,633.0	0.70	126.20	5,490.2	994.3	540.7	1,131.8	0.02	0.00	
5,724.0	0.20	132.40	5,581.2	993.8	541.2	1,131.6	0.55	-0.55	
5,816.0	0.70	215.40	5,673.2	993.3	541.0	1,131.1	0.77	0.54	
5,906.0	0.70	248.50	5,763.2	992.6	540.2	1,130.1	0.44	0.00	
5,999.0	1.10	307.20	5,856.2	993.0	538.9	1,129.8	1.02	0.43	
6,090.0	0.70	345.50	5,947.2	994.0	538.1	1,130.3	0.77	-0.44	
6,182.0	1.40	30.00	6,039.1	995.5	538.5	1,131.9	1.11	0.76	
6,273.0	0.50	16.70	6,130.1	996.9	539.2	1,133.4	1.01	-0.99	
6,364.0	1.80	39.10	6,221.1	998.4	540.2	1,135.2	1.48	1.43	
6,456.0	1.80	35.20	6,313.1	1,000.7	542.0	1,138.0	0.13	0.00	
6,547.0	0.50	354.00	6,404.0	1,002.2	542.7	1,139.8	1.61	-1.43	
6,639.0	0.60	352.30	6,496.0	1,003.1	542.6	1,140.5	0.11	0.11	
6,730.0	0.30	280.50	6,587.0	1,003.6	542.3	1,140.8	0.64	-0.33	
6,822.0	0.40	273.80	6,679.0	1,003.7	541.8	1,140.6	0.12	0.11	
6,913.0	1.30	233.30	6,770.0	1,003.1	540.6	1,139.5	1.13	0.99	
7,005.0	0.90	228.00	6,862.0	1,002.0	539.3	1,137.9	0.45	-0.43	
7,096.0	0.80	248.90	6,953.0	1,001.3	538.1	1,136.7	0.36	-0.11	
7,188.0	1.80	264.60	7,045.0	1,000.9	536.1	1,135.5	1.14	1.09	
7,279.0	2.30	256.80	7,135.9	1,000.4	532.9	1,133.4	0.63	0.55	
7,371.0	2.00	219.80	7,227.9	998.7	530.1	1,130.7	1.51	-0.33	
7,462.0	2.10	211.10	7,318.8	996.1	528.2	1,127.4	0.36	0.11	
7,554.0	1.40	177.50	7,410.8	993.5	527.4	1,124.8	1.32	-0.76	
7,645.0	1.00	164.30	7,501.7	991.6	527.6	1,123.3	0.53	-0.44	
7,737.0	0.70	114.10	7,593.7	990.6	528.4	1,122.7	0.84	-0.33	
7,828.0	1.20	46.50	7,684.7	991.1	529.6	1,123.7	1.25	0.55	
7,920.0	1.10	38.60	7,776.7	992.4	530.8	1,125.4	0.20	-0.11	
8,011.0	1.10	20.40	7,867.7	993.9	531.7	1,127.2	0.38	0.00	
8,103.0	0.70	106.50	7,959.7	994.6	532.5	1,128.2	1.37	-0.43	
8,194.0	0.40	141.70	8,050.7	994.2	533.2	1,128.1	0.48	-0.33	
8,285.0	0.00	251.40	8,141.7	993.9	533.4	1,128.0	0.44	-0.44	
8,377.0	0.80	257.90	8,233.7	993.8	532.8	1,127.6	0.87	0.87	
8,468.0	1.00	280.50	8,324.7	993.8	531.4	1,127.0	0.44	0.22	
8,560.0	0.80	239.60	8,416.6	993.6	530.1	1,126.2	0.71	-0.22	
8,651.0	1.60	272.50	8,507.6	993.4	528.3	1,125.1	1.13	0.88	
8,743.0	2.10	248.10	8,599.6	992.8	525.4	1,123.2	1.00	0.54	
8,834.0	2.40	265.40	8,690.5	992.0	522.0	1,120.9	0.81	0.33	
8,926.0	2.60	252.10	8,782.4	991.2	518.1	1,118.3	0.67	0.22	Last Cathedral Survey @ 8,926' MD
8,981.0	2.60	252.10	8,837.4	990.4	515.7	1,116.5	0.00	0.00	Projection to TD @ 8981' MD

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well NP WF06C-22 K22 596
Project: North Piceance	TVD Reference: WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Site: K22 596 Pad (S22-T5S-R96W)	MD Reference: WF06C-22 K22 596 @ 6549.0ft (Patterson 303)
Well: NP WF06C-22 K22 596	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: USA EDM 5000 Multi Users DB

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									
K22 596 WF06C-22 TG ⁻	0.00	0.00	5,347.0	1,009.6	560.2	1,655,160.31	2,251,602.71	39° 36' 7.77 N	108° 9' 23.06 W
- actual wellpath misses target center by 25.5ft at 5490.0ft MD (5347.2 TVD, 995.4 N, 539.1 E)									
- Point									
K22 596 WF06C-22 BHL	0.00	0.00	8,792.0	995.7	536.2	1,655,147.06	2,251,578.27	39° 36' 7.63 N	108° 9' 23.37 W
- actual wellpath misses target center by 21.0ft at 8926.0ft MD (8782.4 TVD, 991.2 N, 518.1 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,926.0	8,782.4	991.2	518.1	Last Cathedral Survey @ 8,926' MD
8,981.0	8,837.4	990.4	515.7	Projection to TD @ 8981' MD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------