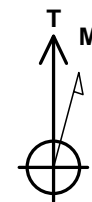
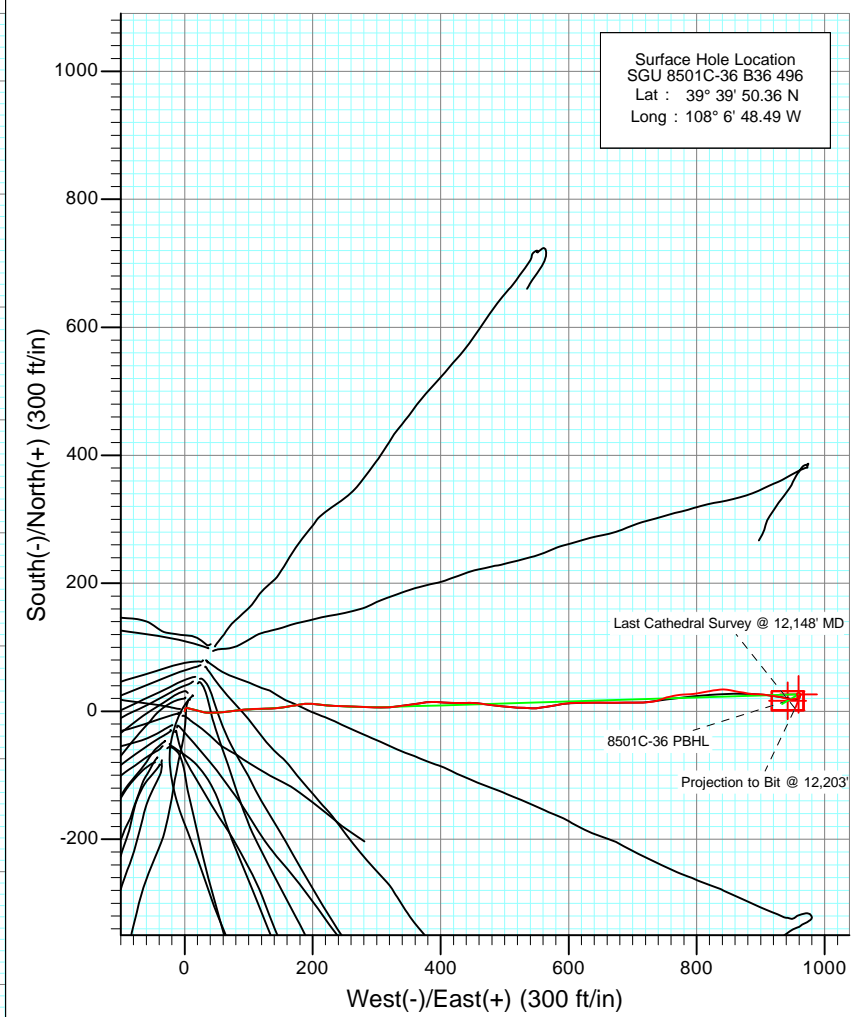
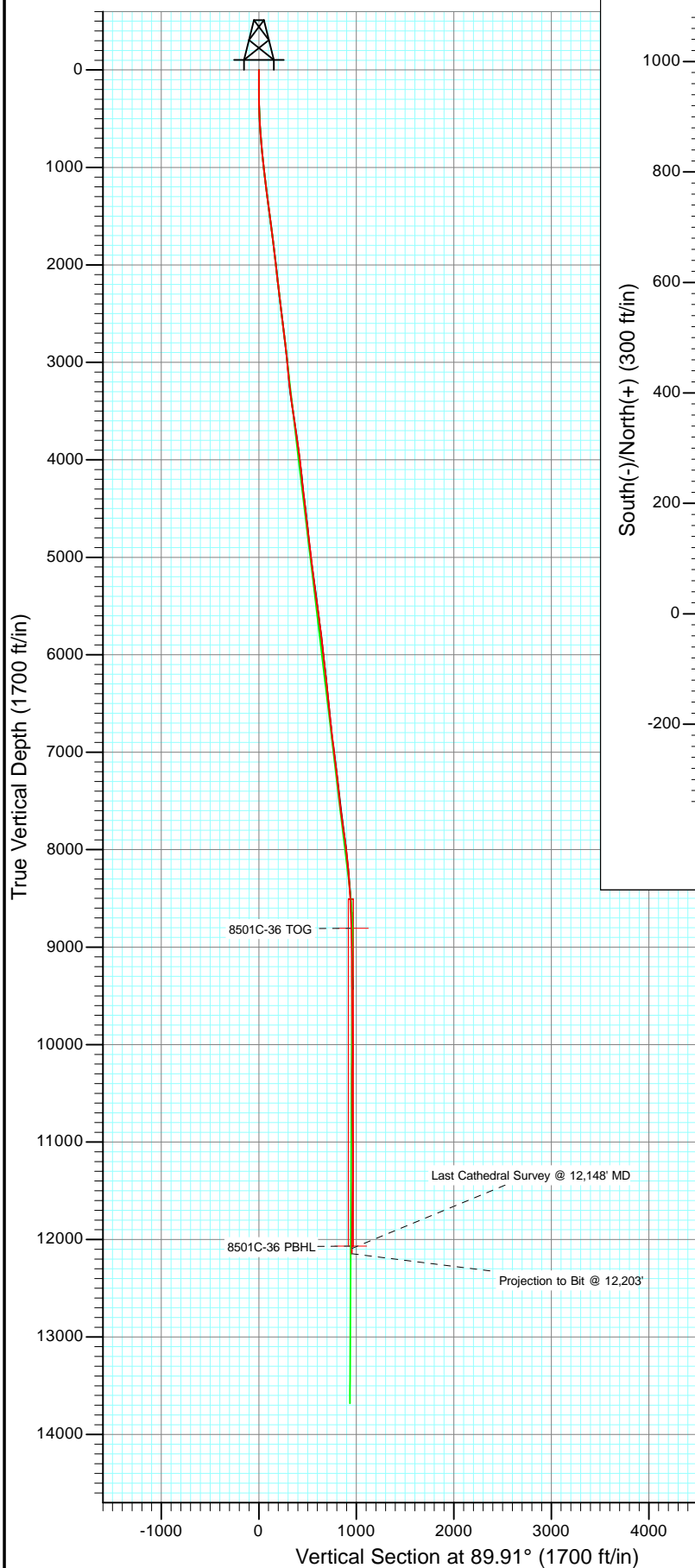




Project: Story Gulch
 Site: S36-T4S-R96W (B36 496)
 Well: SGU 8501C-36 B36 496
 Wellbore: Sidetrack #1
 Design: FINAL



Azimuths to True North
 Magnetic North: 10.48°

Magnetic Field
 Strength: 52348.2snT
 Dip Angle: 65.87°
 Date: 1/17/2011
 Model: IGRF2010

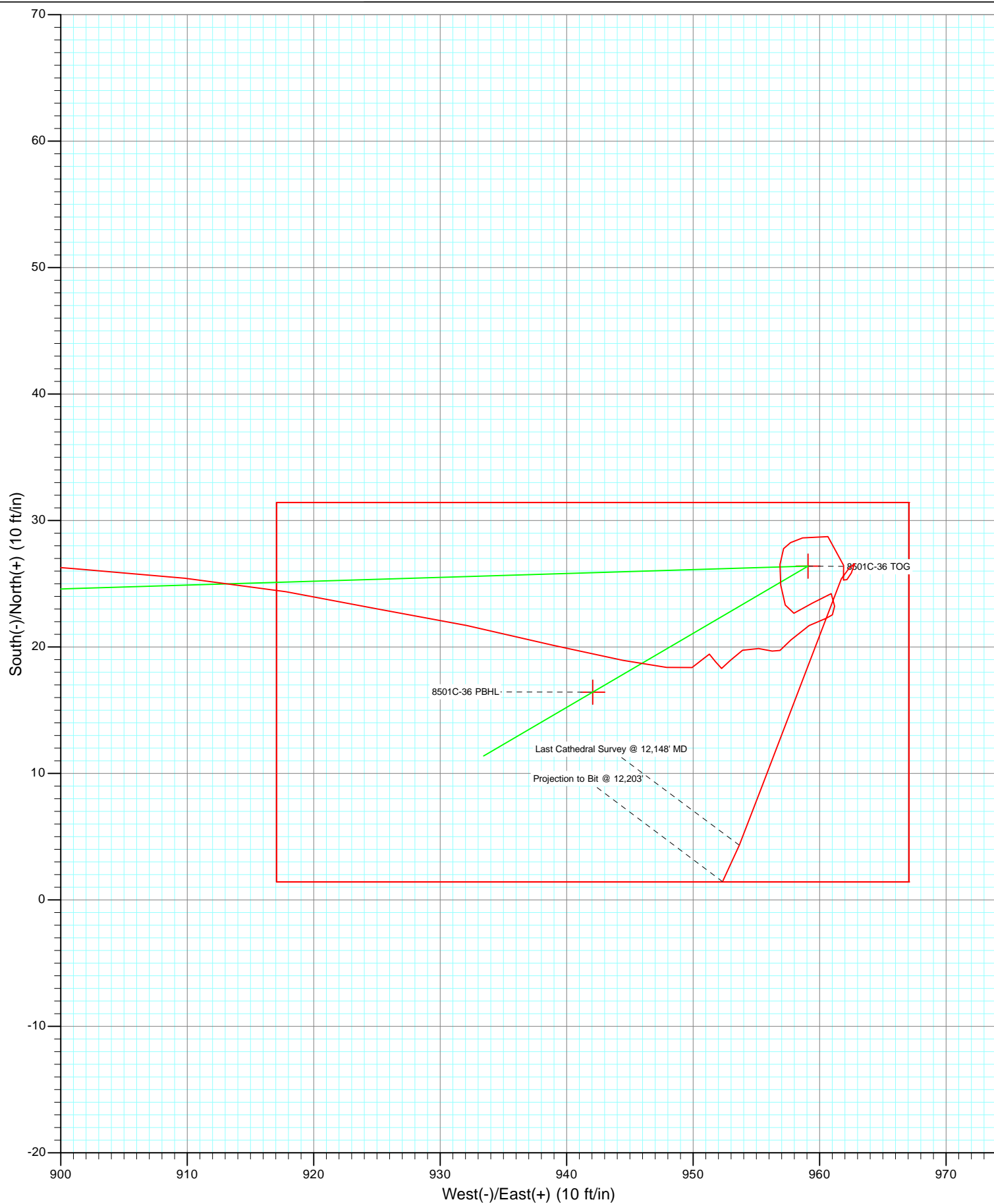
Sidetrack #1
 SGU 8501C-36 B36 496
 WELL @ 8374.0ft (Original Well Elev)
 North American Datum 1983
 Well SGU 8501C-36 B36 496, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	89.91	Slot	0.0	0.0	0.0

No target data is available.



Project: Story Gulch
Site: S36-T4S-R96W (B36 496)
Well: SGU 8501C-36 B36 496
Wellbore: Sidetrack #1
Design: FINAL



Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8501C-36 B36 496
Project:	Story Gulch	TVD Reference:	WELL @ 8374.0ft (Original Well Elev)
Site:	S36-T4S-R96W (B36 496)	MD Reference:	WELL @ 8374.0ft (Original Well Elev)
Well:	SGU 8501C-36 B36 496	North Reference:	True
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 US Multi Users DB

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

Site		S36-T4S-R96W (B36 496)			
Site Position:		Northing:	1,677,422.27 ft	Latitude:	39° 39' 51.36 N
From:	Lat/Long	Easting:	2,264,394.80 ft	Longitude:	108° 6' 47.88 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	SGU 8501C-36 B36 496					
Well Position	+N/-S	0.0 ft	Northing:	1,677,322.27 ft	Latitude:	39° 39' 50.36 N
	+E/-W	0.0 ft	Easting:	2,264,344.28 ft	Longitude:	108° 6' 48.49 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,352.0 ft

Wellbore	Sidetrack #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/17/2011	10.48	65.87	52,348

Design	Sidetrack #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	6,473.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	89.91	

Survey Program	Date	1/24/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
174.0	6,473.0	Survey #1 (DD)	MWD	Geolink MWD	
6,520.0	12,203.0	Survey #1 (Sidetrack #1)	MWD	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		
174.0	1.30	8.90	174.0	2.0	0.3	0.3	0.75	0.75		
205.0	1.30	14.80	205.0	2.6	0.4	0.5	0.43	0.00		
235.0	0.90	13.60	235.0	3.2	0.6	0.6	1.34	-1.33		
266.0	1.10	24.70	266.0	3.7	0.8	0.8	0.90	0.65		
297.0	1.10	51.00	297.0	4.2	1.1	1.1	1.61	0.00		
327.0	0.90	47.20	327.0	4.5	1.5	1.5	0.70	-0.67		
357.0	1.10	67.80	357.0	4.8	2.0	2.0	1.36	0.67		
388.0	1.50	82.10	387.9	4.9	2.6	2.7	1.65	1.29		
419.0	2.00	91.50	418.9	5.0	3.6	3.6	1.85	1.61		
480.0	2.80	103.00	479.9	4.6	6.1	6.1	1.52	1.31		
511.0	3.20	109.40	510.8	4.2	7.7	7.7	1.68	1.29		

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8501C-36 B36 496
Project:	Story Gulch	TVD Reference:	WELL @ 8374.0ft (Original Well Elev)
Site:	S36-T4S-R96W (B36 496)	MD Reference:	WELL @ 8374.0ft (Original Well Elev)
Well:	SGU 8501C-36 B36 496	North Reference:	True
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 US 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
606.0	4.20	101.90	605.6	2.6	13.6	13.6	1.17	1.05	
701.0	4.80	105.90	700.3	0.8	20.8	20.8	0.71	0.63	
796.0	5.50	103.00	795.0	-1.4	29.0	29.0	0.79	0.74	
891.0	5.80	91.40	889.5	-2.5	38.3	38.3	1.24	0.32	
986.0	7.00	85.80	983.9	-2.2	48.9	48.8	1.42	1.26	
1,081.0	6.60	86.00	1,078.2	-1.4	60.1	60.1	0.42	-0.42	
1,176.0	6.60	81.20	1,172.6	-0.2	70.9	70.9	0.58	0.00	
1,271.0	7.50	84.00	1,266.9	1.3	82.5	82.5	1.01	0.95	
1,366.0	7.20	84.30	1,361.1	2.6	94.6	94.6	0.32	-0.32	
1,461.0	8.20	87.20	1,455.3	3.5	107.3	107.3	1.13	1.05	
1,556.0	7.60	89.10	1,549.4	3.9	120.3	120.3	0.69	-0.63	
1,651.0	6.30	87.80	1,643.7	4.2	131.8	131.8	1.38	-1.37	
1,746.0	6.20	85.30	1,738.1	4.8	142.1	142.1	0.31	-0.11	
1,841.0	8.10	81.70	1,832.3	6.2	153.9	153.9	2.05	2.00	
1,936.0	7.60	80.10	1,926.5	8.3	166.7	166.7	0.57	-0.53	
2,031.0	5.80	78.80	2,020.8	10.3	177.6	177.6	1.90	-1.89	
2,127.0	6.20	84.80	2,116.3	11.7	187.5	187.5	0.77	0.42	
2,222.0	7.40	93.80	2,210.6	11.7	198.7	198.7	1.69	1.26	
2,317.0	6.50	97.80	2,304.9	10.6	210.1	210.1	1.08	-0.95	
2,412.0	6.50	96.60	2,399.3	9.3	220.8	220.8	0.14	0.00	
2,507.0	7.30	92.60	2,493.6	8.4	232.2	232.2	0.98	0.84	
2,603.0	6.50	90.90	2,588.9	8.0	243.7	243.7	0.86	-0.83	
2,698.0	7.00	93.30	2,683.3	7.6	254.9	254.9	0.60	0.53	
2,793.0	7.30	92.00	2,777.5	7.0	266.7	266.7	0.36	0.32	
2,836.0	7.10	90.80	2,820.2	6.9	272.1	272.1	0.58	-0.47	
2,888.0	6.90	90.30	2,871.8	6.8	278.4	278.4	0.40	-0.38	
2,995.0	5.60	91.70	2,978.2	6.7	290.0	290.0	1.22	-1.21	
3,082.0	4.90	94.40	3,064.8	6.2	298.0	298.0	0.85	-0.80	
3,174.0	6.00	88.50	3,156.4	6.1	306.7	306.7	1.34	1.20	
3,265.0	5.50	91.00	3,246.9	6.1	315.8	315.8	0.61	-0.55	
3,357.0	8.40	82.50	3,338.2	6.9	326.9	326.9	3.34	3.15	
3,448.0	8.30	81.90	3,428.3	8.7	340.0	340.0	0.15	-0.11	
3,540.0	8.20	82.40	3,519.3	10.5	353.1	353.1	0.13	-0.11	
3,632.0	7.70	81.50	3,610.4	12.3	365.7	365.7	0.56	-0.54	
3,723.0	7.90	81.90	3,700.6	14.1	377.9	377.9	0.23	0.22	
3,815.0	8.80	92.70	3,791.6	14.6	391.2	391.2	1.96	0.98	
3,907.0	8.20	93.90	3,882.6	13.9	404.7	404.8	0.68	-0.65	
3,998.0	6.70	92.00	3,972.8	13.2	416.5	416.5	1.67	-1.65	
4,090.0	6.40	90.80	4,064.2	13.0	427.0	427.0	0.36	-0.33	
4,181.0	6.10	89.90	4,154.7	12.9	436.9	436.9	0.35	-0.33	
4,273.0	5.70	87.30	4,246.2	13.1	446.4	446.4	0.52	-0.43	
4,364.0	7.50	97.80	4,336.6	12.5	456.8	456.8	2.37	1.98	
4,456.0	7.50	97.70	4,427.8	10.9	468.7	468.7	0.01	0.00	
4,547.0	6.70	95.70	4,518.1	9.6	479.8	479.9	0.92	-0.88	
4,639.0	6.40	96.40	4,609.5	8.5	490.3	490.3	0.34	-0.33	
4,730.0	5.90	96.10	4,700.0	7.4	500.0	500.0	0.55	-0.55	
4,822.0	5.60	95.70	4,791.5	6.5	509.1	509.1	0.33	-0.33	
4,913.0	7.40	92.70	4,881.9	5.8	519.4	519.4	2.01	1.98	
5,005.0	7.00	92.80	4,973.2	5.2	530.9	530.9	0.43	-0.43	
5,097.0	6.60	92.80	5,064.6	4.7	541.8	541.8	0.43	-0.43	
5,188.0	8.20	83.00	5,154.8	5.2	553.5	553.5	2.23	1.76	
5,280.0	7.90	80.30	5,245.9	7.1	566.2	566.2	0.52	-0.33	
5,372.0	7.80	78.90	5,337.0	9.3	578.6	578.6	0.23	-0.11	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8501C-36 B36 496
Project:	Story Gulch	TVD Reference:	WELL @ 8374.0ft (Original Well Elev)
Site:	S36-T4S-R96W (B36 496)	MD Reference:	WELL @ 8374.0ft (Original Well Elev)
Well:	SGU 8501C-36 B36 496	North Reference:	True
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 US 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
5,463.0	7.20	80.50	5,427.3	11.5	590.3	590.3	0.70	-0.66	
5,555.0	8.00	87.40	5,518.5	12.7	602.3	602.4	1.32	0.87	
5,647.0	7.40	88.30	5,609.6	13.2	614.7	614.7	0.67	-0.65	
5,739.0	7.20	90.80	5,700.9	13.3	626.3	626.4	0.41	-0.22	
5,831.0	6.80	88.20	5,792.2	13.4	637.6	637.6	0.55	-0.43	
5,923.0	7.00	88.90	5,883.5	13.7	648.6	648.6	0.24	0.22	
6,014.0	5.70	93.70	5,974.0	13.5	658.7	658.7	1.54	-1.43	
6,106.0	6.70	87.90	6,065.4	13.4	668.6	668.6	1.28	1.09	
6,198.0	6.20	89.90	6,156.8	13.6	678.9	678.9	0.60	-0.54	
6,289.0	5.80	89.20	6,247.3	13.6	688.4	688.4	0.45	-0.44	
6,381.0	6.90	88.60	6,338.8	13.8	698.6	698.6	1.20	1.20	
6,473.0	5.00	91.90	6,430.3	13.8	708.1	708.2	2.10	-2.07	
6,520.0	5.00	93.50	6,477.1	13.7	712.2	712.2	0.30	0.00	
6,566.0	5.90	91.30	6,522.9	13.5	716.6	716.6	2.01	1.96	
6,612.0	5.00	81.60	6,568.7	13.7	720.9	721.0	2.79	-1.96	
6,658.0	6.90	76.30	6,614.4	14.7	725.6	725.6	4.30	4.13	
6,703.0	8.00	88.70	6,659.1	15.4	731.4	731.4	4.32	2.44	
6,749.0	7.30	73.80	6,704.7	16.3	737.4	737.4	4.56	-1.52	
6,795.0	6.70	70.30	6,750.3	18.0	742.7	742.7	1.60	-1.30	
6,841.0	6.70	71.00	6,796.0	19.8	747.8	747.8	0.18	0.00	
6,887.0	6.70	71.80	6,841.7	21.5	752.9	752.9	0.20	0.00	
6,932.0	6.60	76.90	6,886.4	22.9	757.9	757.9	1.33	-0.22	
6,978.0	6.60	78.30	6,932.1	24.0	763.0	763.1	0.35	0.00	
7,024.0	6.70	80.70	6,977.8	25.0	768.3	768.3	0.64	0.22	
7,070.0	6.80	84.80	7,023.4	25.7	773.6	773.7	1.07	0.22	
7,115.0	6.70	85.60	7,068.1	26.1	778.9	778.9	0.31	-0.22	
7,207.0	7.00	88.00	7,159.5	26.7	789.8	789.9	0.45	0.33	
7,298.0	6.90	79.60	7,249.8	27.9	800.8	800.8	1.12	-0.11	
7,390.0	6.50	79.30	7,341.2	29.9	811.3	811.4	0.44	-0.43	
7,481.0	6.30	80.50	7,431.6	31.6	821.3	821.4	0.26	-0.22	
7,527.0	6.40	79.60	7,477.3	32.5	826.3	826.4	0.31	0.22	
7,573.0	6.60	82.00	7,523.0	33.4	831.5	831.5	0.73	0.43	
7,619.0	6.70	87.00	7,568.7	33.9	836.8	836.8	1.28	0.22	
7,663.0	6.90	88.50	7,612.4	34.1	842.0	842.0	0.61	0.45	
7,709.0	7.50	99.80	7,658.1	33.6	847.7	847.7	3.34	1.30	
7,755.0	7.50	99.50	7,703.7	32.6	853.6	853.6	0.09	0.00	
7,800.0	7.80	100.50	7,748.3	31.6	859.5	859.5	0.73	0.67	
7,846.0	9.10	100.00	7,793.8	30.4	866.1	866.2	2.83	2.83	
7,892.0	8.90	100.80	7,839.2	29.1	873.2	873.3	0.51	-0.43	
7,938.0	8.80	102.60	7,884.7	27.6	880.2	880.2	0.64	-0.22	
7,984.0	7.30	89.60	7,930.2	26.9	886.5	886.6	5.11	-3.26	
8,029.0	6.00	93.30	7,974.9	26.8	891.7	891.8	3.04	-2.89	
8,075.0	5.80	92.80	8,020.7	26.5	896.4	896.5	0.45	-0.43	
8,121.0	5.50	95.60	8,066.4	26.2	901.0	901.0	0.89	-0.65	
8,213.0	5.60	94.30	8,158.0	25.4	909.8	909.9	0.17	0.11	
8,304.0	4.60	101.70	8,248.6	24.4	917.8	917.9	1.31	-1.10	
8,396.0	4.50	99.50	8,340.4	23.0	925.0	925.0	0.22	-0.11	
8,487.0	4.60	101.50	8,431.1	21.7	932.1	932.1	0.21	0.11	
8,578.0	4.30	104.50	8,521.8	20.1	939.0	939.0	0.42	-0.33	
8,670.0	2.70	98.30	8,613.6	18.9	944.5	944.5	1.78	-1.74	
8,761.0	1.70	100.50	8,704.5	18.4	947.9	947.9	1.10	-1.10	
8,853.0	0.90	71.10	8,796.5	18.4	949.9	950.0	1.11	-0.87	
8,945.0	0.60	23.00	8,888.5	19.1	950.8	950.8	0.73	-0.33	

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well SGU 8501C-36 B36 496
Project:	Story Gulch	TVD Reference:	WELL @ 8374.0ft (Original Well Elev)
Site:	S36-T4S-R96W (B36 496)	MD Reference:	WELL @ 8374.0ft (Original Well Elev)
Well:	SGU 8501C-36 B36 496	North Reference:	True
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 US 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
9,036.0	0.40	100.50	8,979.5	19.4	951.3	951.3	0.71	-0.22	
9,128.0	0.70	163.10	9,071.5	18.8	951.8	951.8	0.68	0.33	
9,219.0	0.40	90.30	9,162.5	18.3	952.3	952.3	0.76	-0.33	
9,311.0	0.90	30.10	9,254.5	18.9	952.9	953.0	0.85	0.54	
9,403.0	0.80	72.10	9,346.5	19.7	953.9	953.9	0.67	-0.11	
9,497.0	0.80	96.70	9,440.5	19.9	955.2	955.2	0.36	0.00	
9,586.0	0.60	105.80	9,529.5	19.7	956.3	956.3	0.26	-0.22	
9,678.0	0.30	41.20	9,621.5	19.7	956.9	956.9	0.59	-0.33	
9,769.0	1.20	47.10	9,712.5	20.6	957.7	957.8	0.99	0.99	
9,861.0	1.10	56.20	9,804.4	21.7	959.2	959.2	0.23	-0.11	
9,952.0	0.80	82.70	9,895.4	22.3	960.5	960.6	0.58	-0.33	
10,044.0	1.10	2.10	9,987.4	23.2	961.2	961.2	1.36	0.33	
10,136.0	0.40	289.50	10,079.4	24.2	960.9	961.0	1.14	-0.76	
10,227.0	1.80	234.20	10,170.4	23.5	959.5	959.5	1.77	1.54	
10,319.0	0.40	274.30	10,262.4	22.7	958.0	958.0	1.65	-1.52	
10,411.0	0.90	330.30	10,354.4	23.3	957.3	957.3	0.82	0.54	
10,502.0	1.20	359.80	10,445.4	24.9	956.9	957.0	0.67	0.33	
10,591.0	0.90	355.30	10,534.3	26.5	956.9	956.9	0.35	-0.34	
10,682.0	0.80	32.20	10,625.3	27.8	957.2	957.2	0.60	-0.11	
10,774.0	1.50	75.30	10,717.3	28.6	958.7	958.7	1.16	0.76	
10,865.0	1.10	103.40	10,808.3	28.7	960.7	960.7	0.81	-0.44	
11,049.0	1.20	194.40	10,992.3	26.4	961.9	961.9	0.89	0.05	
11,140.0	0.40	135.10	11,083.3	25.3	961.9	961.9	1.16	-0.88	
11,232.0	1.10	26.80	11,175.3	25.9	962.5	962.6	1.39	0.76	
11,323.0	0.20	250.00	11,266.3	26.6	962.8	962.8	1.38	-0.99	
11,415.0	0.50	221.40	11,358.3	26.2	962.3	962.4	0.37	0.33	
11,507.0	0.80	214.00	11,450.2	25.4	961.7	961.8	0.34	0.33	
12,056.0	2.90	197.30	11,998.9	9.0	955.4	955.5	0.39	0.38	
12,148.0	3.30	204.60	12,090.8	4.3	953.7	953.7	0.61	0.43	Last Cathedral Survey @ 12,148' MD
12,203.0	3.30	204.60	12,145.7	1.4	952.3	952.3	0.00	0.00	Projection to Bit @ 12,203'

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,148.0	12,090.8	4.3	953.7	Last Cathedral Survey @ 12,148' MD	
12,203.0	12,145.7	1.4	952.3	Projection to Bit @ 12,203'	

Checked By: _____	Approved By: _____	Date: _____
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