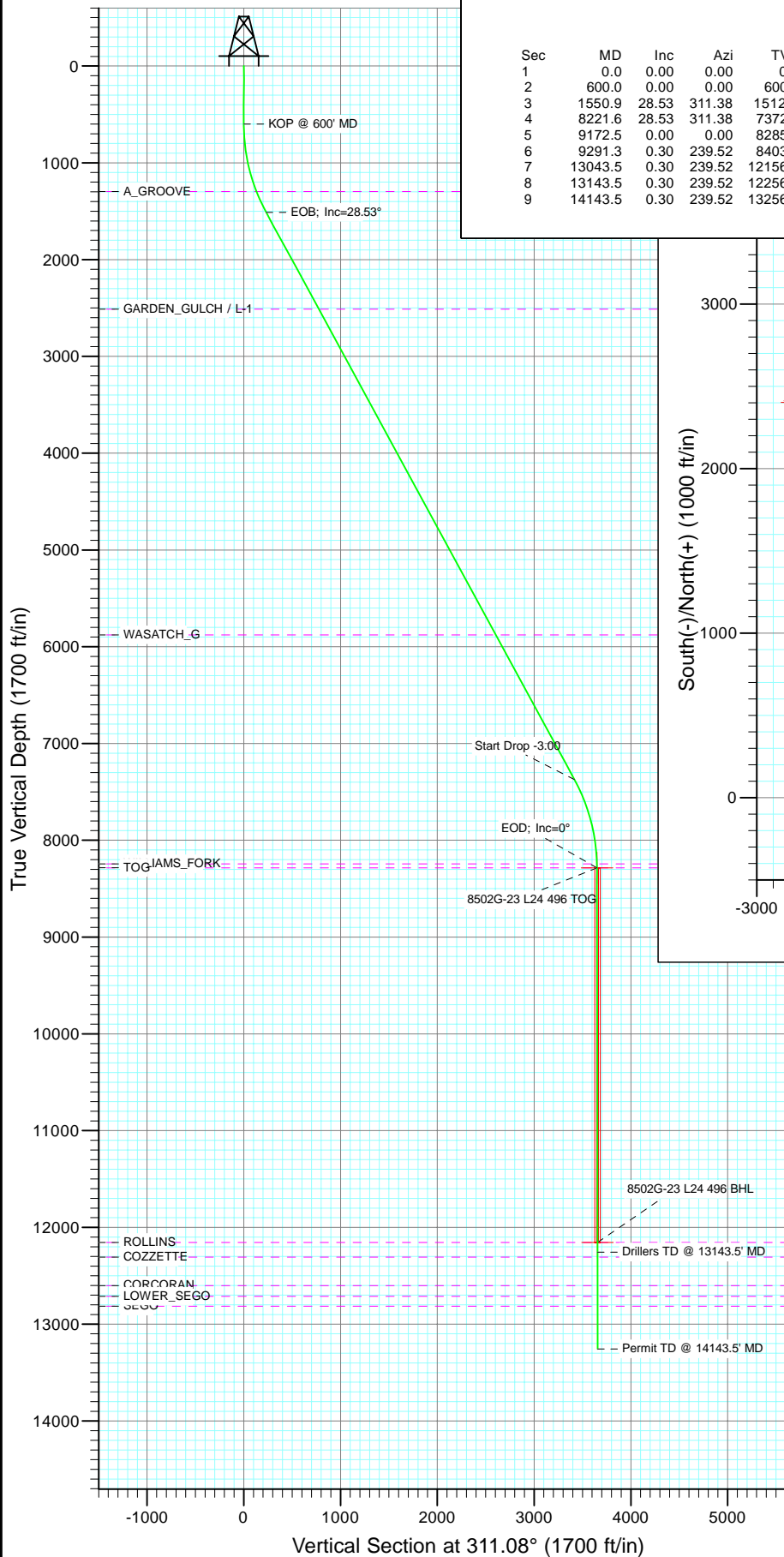
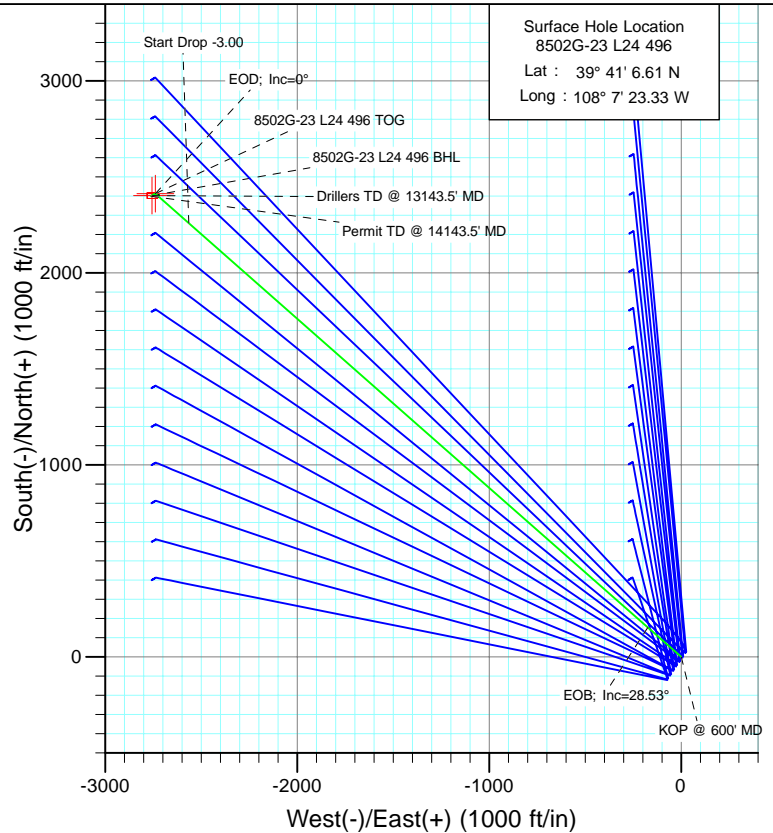




Project: Story Gulch
Site: L24 496
Well: 8502G-23 L24 496
Wellbore: DD
Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1550.9	28.53	311.38	1512.1	153.3	-174.0	3.00	311.38	231.9	
4	8221.6	28.53	311.38	7372.9	2259.0	-2564.5	0.00	0.00	3417.5	
5	9172.5	0.00	0.00	8285.0	2412.3	-2738.5	3.00	180.00	3649.4	8502G-23 L24 496 TOG
6	9291.3	0.30	239.52	8403.8	2412.1	-2738.8	0.25	239.52	3649.5	
7	13043.5	0.30	239.52	12156.0	2402.3	-2755.5	0.00	0.00	3655.7	8502G-23 L24 496 BHL
8	13143.5	0.30	239.52	12256.0	2402.0	-2756.0	0.00	0.00	3655.8	
9	14143.5	0.30	239.52	13256.0	2399.4	-2760.4	0.00	0.00	3657.5	



Azimuths to True North
Magnetic North: 10.44°

Magnetic Field
Strength: 52326.5nT
Dip Angle: 65.87°
Date: 5/17/2011
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1297.0	1313.5	A_GROOVE
2511.0	2687.8	GARDEN_GULCH / L-1
5878.0	6520.1	WASATCH_G
8245.0	9132.5	WILLIAMS_FORK
8285.0	9172.5	TOG
12156.0	13043.5	ROLLINS
12308.0	13195.5	COZZETTE
12602.0	13489.5	CORCORAN
12712.0	13599.5	LOWER_SEGO
12814.0	13701.5	SEGO

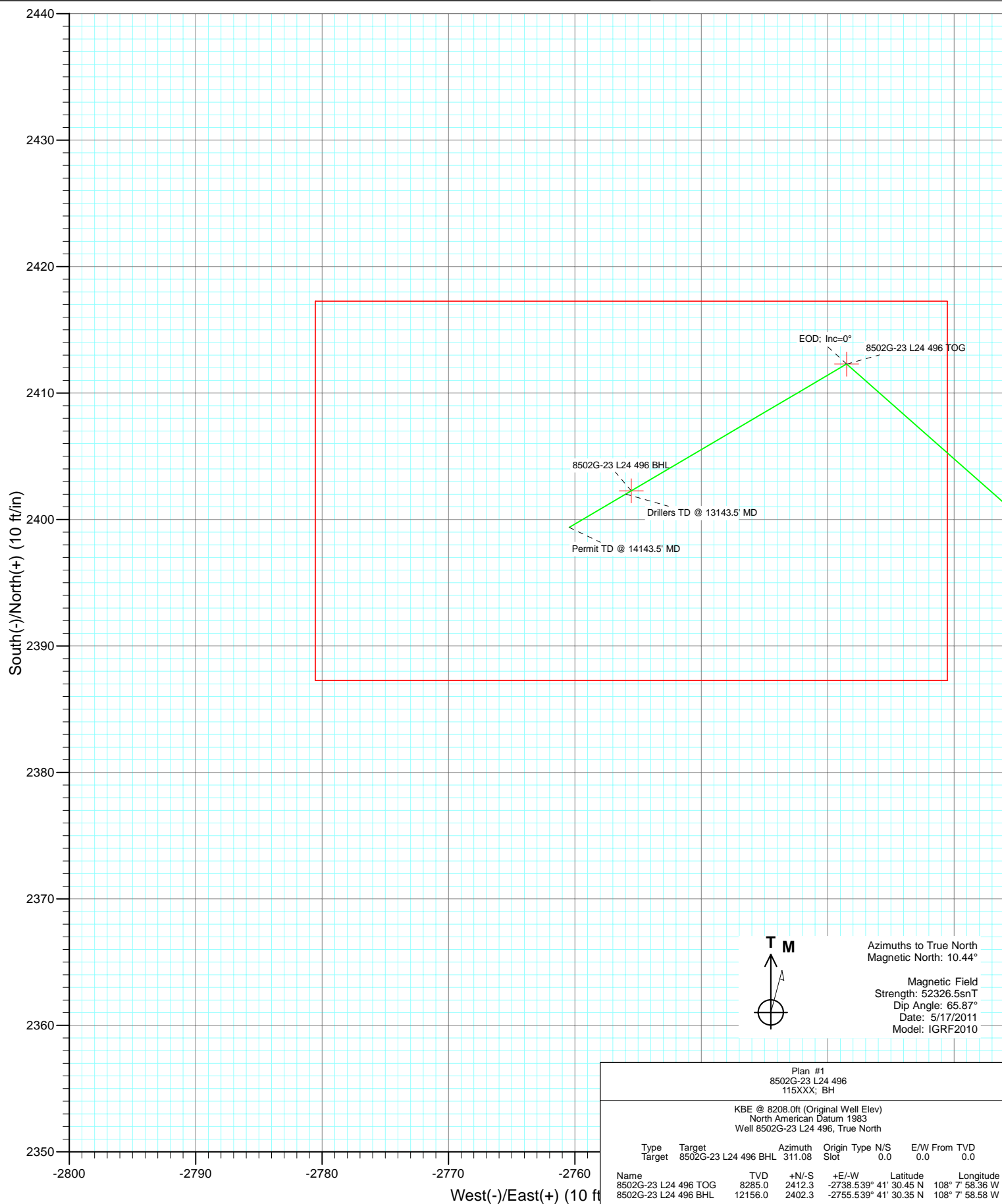
Plan #1
8502G-23 L24 496
115XXX; BH

KBE @ 8208.0ft (Original Well Elev)
North American Datum 1983
Well 8502G-23 L24 496, True North

Type	Target	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
	Target	8502G-23 L24 496 BHL	311.08	Slot		0.0	0.0		0.0
Name									
8502G-23 L24 496 TOG		TVD	+N/-S	Latitude					Longitude
8502G-23 L24 496 BHL		8285.0	2412.3	-2738.539° 41'	30.45 N	108° 7'	58.36 W		
		12156.0	2402.3	-2755.539° 41'	30.35 N	108° 7'	58.58 W		



Project: Story Gulch
Site: L24 496
Well: 8502G-23 L24 496
Wellbore: DD
Design: Plan #1



Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8502G-23 L24 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8208.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8208.0ft (Original Well Elev)
Site:	L24 496	North Reference:	True
Well:	8502G-23 L24 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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		L24 496			
Site Position:		Northing:	1,685,024.52 ft	Latitude:	39° 41' 5.72 N
From:	Lat/Long	Easting:	2,261,789.15 ft	Longitude:	108° 7' 23.99 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	8502G-23 L24 496					
Well Position	+N/-S	0.0 ft	Northing:	1,685,113.04 ft	Latitude:	39° 41' 6.61 N
	+E/-W	0.0 ft	Easting:	2,261,843.33 ft	Longitude:	108° 7' 23.33 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,193.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/17/2011	10.44	65.87	52,327

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	311.08

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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,550.9	28.53	311.38	1,512.1	153.3	-174.0	3.00	3.00	0.00	311.38	
8,221.6	28.53	311.38	7,372.9	2,259.0	-2,564.5	0.00	0.00	0.00	0.00	
9,172.5	0.00	0.00	8,285.0	2,412.3	-2,738.5	3.00	-3.00	0.00	180.00	8502G-23 L24 496 TC
9,291.3	0.30	239.52	8,403.8	2,412.1	-2,738.8	0.25	0.25	-101.38	239.52	
13,043.5	0.30	239.52	12,156.0	2,402.3	-2,755.5	0.00	0.00	0.00	0.00	8502G-23 L24 496 B+
13,143.5	0.30	239.52	12,256.0	2,402.0	-2,756.0	0.00	0.00	0.00	0.00	
14,143.5	0.30	239.52	13,256.0	2,399.4	-2,760.4	0.00	0.00	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8502G-23 L24 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8208.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8208.0ft (Original Well Elev)
Site:	L24 496	North Reference:	True
Well:	8502G-23 L24 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	KOP @ 600' MD
700.0	3.00	311.38	700.0	1.7	-2.0	2.6	3.00	3.00	
800.0	6.00	311.38	799.6	6.9	-7.9	10.5	3.00	3.00	
900.0	9.00	311.38	898.8	15.5	-17.6	23.5	3.00	3.00	
1,000.0	12.00	311.38	997.1	27.6	-31.3	41.7	3.00	3.00	
1,100.0	15.00	311.38	1,094.3	43.0	-48.8	65.1	3.00	3.00	
1,200.0	18.00	311.38	1,190.2	61.8	-70.1	93.5	3.00	3.00	
1,300.0	21.00	311.38	1,284.4	83.8	-95.2	126.9	3.00	3.00	
1,313.5	21.40	311.38	1,297.0	87.1	-98.8	131.7	3.00	3.00	A_GROOVE
1,400.0	24.00	311.38	1,376.8	109.1	-123.9	165.1	3.00	3.00	
1,500.0	27.00	311.38	1,467.1	137.6	-156.2	208.2	3.00	3.00	
1,550.9	28.53	311.38	1,512.1	153.3	-174.0	231.9	3.00	3.00	EOB; Inc=28.53°
1,600.0	28.53	311.38	1,555.2	168.8	-191.6	255.3	0.00	0.00	
1,700.0	28.53	311.38	1,643.1	200.3	-227.4	303.1	0.00	0.00	
1,800.0	28.53	311.38	1,731.0	231.9	-263.3	350.8	0.00	0.00	
1,900.0	28.53	311.38	1,818.8	263.5	-299.1	398.6	0.00	0.00	
2,000.0	28.53	311.38	1,906.7	295.0	-334.9	446.3	0.00	0.00	
2,100.0	28.53	311.38	1,994.5	326.6	-370.8	494.1	0.00	0.00	
2,200.0	28.53	311.38	2,082.4	358.2	-406.6	541.9	0.00	0.00	
2,300.0	28.53	311.38	2,170.3	389.7	-442.4	589.6	0.00	0.00	
2,400.0	28.53	311.38	2,258.1	421.3	-478.3	637.4	0.00	0.00	
2,500.0	28.53	311.38	2,346.0	452.9	-514.1	685.1	0.00	0.00	
2,600.0	28.53	311.38	2,433.8	484.4	-550.0	732.9	0.00	0.00	
2,687.8	28.53	311.38	2,511.0	512.2	-581.4	774.8	0.00	0.00	GARDEN_GULCH / L-1
2,700.0	28.53	311.38	2,521.7	516.0	-585.8	780.6	0.00	0.00	
2,800.0	28.53	311.38	2,609.5	547.6	-621.6	828.4	0.00	0.00	
2,900.0	28.53	311.38	2,697.4	579.1	-657.5	876.2	0.00	0.00	
3,000.0	28.53	311.38	2,785.3	610.7	-693.3	923.9	0.00	0.00	
3,100.0	28.53	311.38	2,873.1	642.3	-729.1	971.7	0.00	0.00	
3,200.0	28.53	311.38	2,961.0	673.8	-765.0	1,019.4	0.00	0.00	
3,300.0	28.53	311.38	3,048.8	705.4	-800.8	1,067.2	0.00	0.00	
3,400.0	28.53	311.38	3,136.7	737.0	-836.6	1,114.9	0.00	0.00	
3,500.0	28.53	311.38	3,224.6	768.6	-872.5	1,162.7	0.00	0.00	
3,600.0	28.53	311.38	3,312.4	800.1	-908.3	1,210.4	0.00	0.00	
3,700.0	28.53	311.38	3,400.3	831.7	-944.1	1,258.2	0.00	0.00	
3,800.0	28.53	311.38	3,488.1	863.3	-980.0	1,306.0	0.00	0.00	
3,900.0	28.53	311.38	3,576.0	894.8	-1,015.8	1,353.7	0.00	0.00	
4,000.0	28.53	311.38	3,663.9	926.4	-1,051.7	1,401.5	0.00	0.00	
4,100.0	28.53	311.38	3,751.7	958.0	-1,087.5	1,449.2	0.00	0.00	
4,200.0	28.53	311.38	3,839.6	989.5	-1,123.3	1,497.0	0.00	0.00	
4,300.0	28.53	311.38	3,927.4	1,021.1	-1,159.2	1,544.7	0.00	0.00	
4,400.0	28.53	311.38	4,015.3	1,052.7	-1,195.0	1,592.5	0.00	0.00	
4,500.0	28.53	311.38	4,103.2	1,084.2	-1,230.8	1,640.3	0.00	0.00	
4,600.0	28.53	311.38	4,191.0	1,115.8	-1,266.7	1,688.0	0.00	0.00	
4,700.0	28.53	311.38	4,278.9	1,147.4	-1,302.5	1,735.8	0.00	0.00	
4,800.0	28.53	311.38	4,366.7	1,178.9	-1,338.3	1,783.5	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8502G-23 L24 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8208.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8208.0ft (Original Well Elev)
Site:	L24 496	North Reference:	True
Well:	8502G-23 L24 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
4,900.0	28.53	311.38	4,454.6	1,210.5	-1,374.2	1,831.3	0.00	0.00	
5,000.0	28.53	311.38	4,542.5	1,242.1	-1,410.0	1,879.0	0.00	0.00	
5,100.0	28.53	311.38	4,630.3	1,273.6	-1,445.9	1,926.8	0.00	0.00	
5,200.0	28.53	311.38	4,718.2	1,305.2	-1,481.7	1,974.5	0.00	0.00	
5,300.0	28.53	311.38	4,806.0	1,336.8	-1,517.5	2,022.3	0.00	0.00	
5,400.0	28.53	311.38	4,893.9	1,368.3	-1,553.4	2,070.1	0.00	0.00	
5,500.0	28.53	311.38	4,981.7	1,399.9	-1,589.2	2,117.8	0.00	0.00	
5,600.0	28.53	311.38	5,069.6	1,431.5	-1,625.0	2,165.6	0.00	0.00	
5,700.0	28.53	311.38	5,157.5	1,463.0	-1,660.9	2,213.3	0.00	0.00	
5,800.0	28.53	311.38	5,245.3	1,494.6	-1,696.7	2,261.1	0.00	0.00	
5,900.0	28.53	311.38	5,333.2	1,526.2	-1,732.5	2,308.8	0.00	0.00	
6,000.0	28.53	311.38	5,421.0	1,557.7	-1,768.4	2,356.6	0.00	0.00	
6,100.0	28.53	311.38	5,508.9	1,589.3	-1,804.2	2,404.4	0.00	0.00	
6,200.0	28.53	311.38	5,596.8	1,620.9	-1,840.1	2,452.1	0.00	0.00	
6,300.0	28.53	311.38	5,684.6	1,652.4	-1,875.9	2,499.9	0.00	0.00	
6,400.0	28.53	311.38	5,772.5	1,684.0	-1,911.7	2,547.6	0.00	0.00	
6,500.0	28.53	311.38	5,860.3	1,715.6	-1,947.6	2,595.4	0.00	0.00	
6,520.1	28.53	311.38	5,878.0	1,721.9	-1,954.8	2,605.0	0.00	0.00	WASATCH_G
6,600.0	28.53	311.38	5,948.2	1,747.1	-1,983.4	2,643.1	0.00	0.00	
6,700.0	28.53	311.38	6,036.1	1,778.7	-2,019.2	2,690.9	0.00	0.00	
6,800.0	28.53	311.38	6,123.9	1,810.3	-2,055.1	2,738.7	0.00	0.00	
6,900.0	28.53	311.38	6,211.8	1,841.8	-2,090.9	2,786.4	0.00	0.00	
7,000.0	28.53	311.38	6,299.6	1,873.4	-2,126.7	2,834.2	0.00	0.00	
7,100.0	28.53	311.38	6,387.5	1,905.0	-2,162.6	2,881.9	0.00	0.00	
7,200.0	28.53	311.38	6,475.4	1,936.5	-2,198.4	2,929.7	0.00	0.00	
7,300.0	28.53	311.38	6,563.2	1,968.1	-2,234.3	2,977.4	0.00	0.00	
7,400.0	28.53	311.38	6,651.1	1,999.7	-2,270.1	3,025.2	0.00	0.00	
7,500.0	28.53	311.38	6,738.9	2,031.3	-2,305.9	3,072.9	0.00	0.00	
7,600.0	28.53	311.38	6,826.8	2,062.8	-2,341.8	3,120.7	0.00	0.00	
7,700.0	28.53	311.38	6,914.7	2,094.4	-2,377.6	3,168.5	0.00	0.00	
7,800.0	28.53	311.38	7,002.5	2,126.0	-2,413.4	3,216.2	0.00	0.00	
7,900.0	28.53	311.38	7,090.4	2,157.5	-2,449.3	3,264.0	0.00	0.00	
8,000.0	28.53	311.38	7,178.2	2,189.1	-2,485.1	3,311.7	0.00	0.00	
8,100.0	28.53	311.38	7,266.1	2,220.7	-2,520.9	3,359.5	0.00	0.00	
8,200.0	28.53	311.38	7,354.0	2,252.2	-2,556.8	3,407.2	0.00	0.00	
8,221.6	28.53	311.38	7,372.9	2,259.0	-2,564.5	3,417.5	0.00	0.00	Start Drop -3.00
8,300.0	26.17	311.38	7,442.6	2,282.8	-2,591.5	3,453.6	3.00	-3.00	
8,400.0	23.17	311.38	7,533.4	2,310.4	-2,622.9	3,495.3	3.00	-3.00	
8,500.0	20.17	311.38	7,626.3	2,334.8	-2,650.6	3,532.2	3.00	-3.00	
8,600.0	17.17	311.38	7,721.1	2,356.0	-2,674.6	3,564.3	3.00	-3.00	
8,700.0	14.17	311.38	7,817.3	2,373.9	-2,694.9	3,591.3	3.00	-3.00	
8,800.0	11.17	311.38	7,914.9	2,388.4	-2,711.3	3,613.2	3.00	-3.00	
8,900.0	8.17	311.38	8,013.5	2,399.5	-2,723.9	3,630.0	3.00	-3.00	
9,000.0	5.17	311.38	8,112.8	2,407.2	-2,732.7	3,641.6	3.00	-3.00	
9,100.0	2.17	311.38	8,212.5	2,411.4	-2,737.5	3,648.0	3.00	-3.00	
9,132.5	1.20	311.38	8,245.0	2,412.0	-2,738.2	3,649.0	3.00	-3.00	WILLIAMS_FORK
9,172.5	0.00	0.00	8,285.0	2,412.3	-2,738.5	3,649.4	3.00	-3.00	EOD; Inc=0° - TOG - 8502G-23 L24 496 TOG
9,200.0	0.07	239.52	8,312.5	2,412.3	-2,738.5	3,649.4	0.25	0.25	
9,291.3	0.30	239.52	8,403.8	2,412.1	-2,738.8	3,649.5	0.25	0.25	
9,300.0	0.30	239.52	8,412.5	2,412.1	-2,738.8	3,649.5	0.00	0.00	
9,400.0	0.30	239.52	8,512.5	2,411.9	-2,739.3	3,649.7	0.00	0.00	
9,500.0	0.30	239.52	8,612.5	2,411.6	-2,739.7	3,649.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8502G-23 L24 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8208.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8208.0ft (Original Well Elev)
Site:	L24 496	North Reference:	True
Well:	8502G-23 L24 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
9,600.0	0.30	239.52	8,712.5	2,411.3	-2,740.1	3,650.0	0.00	0.00	
9,700.0	0.30	239.52	8,812.5	2,411.1	-2,740.6	3,650.2	0.00	0.00	
9,800.0	0.30	239.52	8,912.5	2,410.8	-2,741.0	3,650.3	0.00	0.00	
9,900.0	0.30	239.52	9,012.5	2,410.5	-2,741.5	3,650.5	0.00	0.00	
10,000.0	0.30	239.52	9,112.5	2,410.3	-2,741.9	3,650.7	0.00	0.00	
10,100.0	0.30	239.52	9,212.5	2,410.0	-2,742.4	3,650.8	0.00	0.00	
10,200.0	0.30	239.52	9,312.5	2,409.8	-2,742.8	3,651.0	0.00	0.00	
10,300.0	0.30	239.52	9,412.5	2,409.5	-2,743.3	3,651.2	0.00	0.00	
10,400.0	0.30	239.52	9,512.5	2,409.2	-2,743.7	3,651.3	0.00	0.00	
10,500.0	0.30	239.52	9,612.5	2,409.0	-2,744.2	3,651.5	0.00	0.00	
10,600.0	0.30	239.52	9,712.5	2,408.7	-2,744.6	3,651.7	0.00	0.00	
10,700.0	0.30	239.52	9,812.5	2,408.4	-2,745.1	3,651.8	0.00	0.00	
10,800.0	0.30	239.52	9,912.5	2,408.2	-2,745.5	3,652.0	0.00	0.00	
10,900.0	0.30	239.52	10,012.5	2,407.9	-2,746.0	3,652.1	0.00	0.00	
11,000.0	0.30	239.52	10,112.5	2,407.6	-2,746.4	3,652.3	0.00	0.00	
11,100.0	0.30	239.52	10,212.5	2,407.4	-2,746.8	3,652.5	0.00	0.00	
11,200.0	0.30	239.52	10,312.5	2,407.1	-2,747.3	3,652.6	0.00	0.00	
11,300.0	0.30	239.52	10,412.5	2,406.9	-2,747.7	3,652.8	0.00	0.00	
11,400.0	0.30	239.52	10,512.5	2,406.6	-2,748.2	3,653.0	0.00	0.00	
11,500.0	0.30	239.52	10,612.5	2,406.3	-2,748.6	3,653.1	0.00	0.00	
11,600.0	0.30	239.52	10,712.5	2,406.1	-2,749.1	3,653.3	0.00	0.00	
11,700.0	0.30	239.52	10,812.5	2,405.8	-2,749.5	3,653.5	0.00	0.00	
11,800.0	0.30	239.52	10,912.5	2,405.5	-2,750.0	3,653.6	0.00	0.00	
11,900.0	0.30	239.52	11,012.5	2,405.3	-2,750.4	3,653.8	0.00	0.00	
12,000.0	0.30	239.52	11,112.5	2,405.0	-2,750.9	3,654.0	0.00	0.00	
12,100.0	0.30	239.52	11,212.5	2,404.8	-2,751.3	3,654.1	0.00	0.00	
12,200.0	0.30	239.52	11,312.5	2,404.5	-2,751.8	3,654.3	0.00	0.00	
12,300.0	0.30	239.52	11,412.5	2,404.2	-2,752.2	3,654.4	0.00	0.00	
12,400.0	0.30	239.52	11,512.5	2,404.0	-2,752.7	3,654.6	0.00	0.00	
12,500.0	0.30	239.52	11,612.5	2,403.7	-2,753.1	3,654.8	0.00	0.00	
12,600.0	0.30	239.52	11,712.5	2,403.4	-2,753.6	3,654.9	0.00	0.00	
12,700.0	0.30	239.52	11,812.5	2,403.2	-2,754.0	3,655.1	0.00	0.00	
12,800.0	0.30	239.52	11,912.5	2,402.9	-2,754.4	3,655.3	0.00	0.00	
12,900.0	0.30	239.52	12,012.5	2,402.7	-2,754.9	3,655.4	0.00	0.00	
13,000.0	0.30	239.52	12,112.5	2,402.4	-2,755.3	3,655.6	0.00	0.00	
13,043.5	0.30	239.52	12,156.0	2,402.3	-2,755.5	3,655.7	0.00	0.00	ROLLINS - 8502G-23 L24 496 BHL
13,100.0	0.30	239.52	12,212.5	2,402.1	-2,755.8	3,655.8	0.00	0.00	
13,143.5	0.30	239.52	12,256.0	2,402.0	-2,756.0	3,655.8	0.00	0.00	Drillers TD @ 13143.5' MD
13,195.5	0.30	239.52	12,308.0	2,401.9	-2,756.2	3,655.9	0.00	0.00	COZZETTE
13,200.0	0.30	239.52	12,312.5	2,401.9	-2,756.2	3,655.9	0.00	0.00	
13,300.0	0.30	239.52	12,412.5	2,401.6	-2,756.7	3,656.1	0.00	0.00	
13,400.0	0.30	239.52	12,512.5	2,401.3	-2,757.1	3,656.2	0.00	0.00	
13,489.5	0.30	239.52	12,602.0	2,401.1	-2,757.5	3,656.4	0.00	0.00	CORCORAN
13,500.0	0.30	239.52	12,612.5	2,401.1	-2,757.6	3,656.4	0.00	0.00	
13,599.5	0.30	239.52	12,712.0	2,400.8	-2,758.0	3,656.6	0.00	0.00	LOWER_SEGO
13,600.0	0.30	239.52	12,712.5	2,400.8	-2,758.0	3,656.6	0.00	0.00	
13,700.0	0.30	239.52	12,812.5	2,400.5	-2,758.5	3,656.7	0.00	0.00	
13,701.5	0.30	239.52	12,814.0	2,400.5	-2,758.5	3,656.7	0.00	0.00	SEGO
13,800.0	0.30	239.52	12,912.5	2,400.3	-2,758.9	3,656.9	0.00	0.00	
13,900.0	0.30	239.52	13,012.5	2,400.0	-2,759.4	3,657.1	0.00	0.00	
14,000.0	0.30	239.52	13,112.5	2,399.8	-2,759.8	3,657.2	0.00	0.00	
14,100.0	0.30	239.52	13,212.5	2,399.5	-2,760.3	3,657.4	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8502G-23 L24 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8208.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8208.0ft (Original Well Elev)
Site:	L24 496	North Reference:	True
Well:	8502G-23 L24 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)	Comments / Formations
14,143.5	0.30	239.52	13,256.0	2,399.4	-2,760.4	3,657.5	0.00	0.00	Permit TD @ 14143.5' MD

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
8502G-23 L24 496 BHL - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	12,156.0	2,402.3	-2,755.5	1,687,593.86	2,259,158.30	39° 41' 30.35 N	108° 7' 58.58 W
8502G-23 L24 496 TOG - plan hits target center - Point	0.00	0.00	8,285.0	2,412.3	-2,738.5	1,687,603.39	2,259,175.61	39° 41' 30.45 N	108° 7' 58.36 W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,313.5	1,297.0	A_GROOVE				
2,687.8	2,511.0	GARDEN_GULCH / L-1				
6,520.1	5,878.0	WASATCH_G				
9,132.5	8,245.0	WILLIAMS_FORK				
9,172.5	8,285.0	TOG				
13,043.5	12,156.0	ROLLINS				
13,195.5	12,308.0	COZZETTE				
13,489.5	12,602.0	CORCORAN				
13,599.5	12,712.0	LOWER_SEGO				
13,701.5	12,814.0	SEGO				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
600.0	600.0	0.0	0.0	KOP @ 600' MD	
1,550.9	1,512.1	153.3	-174.0	EOB; Inc=28.53°	
8,221.6	7,372.9	2,259.0	-2,564.5	Start Drop -3.00	
9,172.5	8,285.0	2,412.3	-2,738.5	EOD; Inc=0°	
13,143.5	12,256.0	2,402.0	-2,756.0	Drillers TD @ 13143.5' MD	
14,143.5	13,256.0	2,399.4	-2,760.4	Permit TD @ 14143.5' MD	