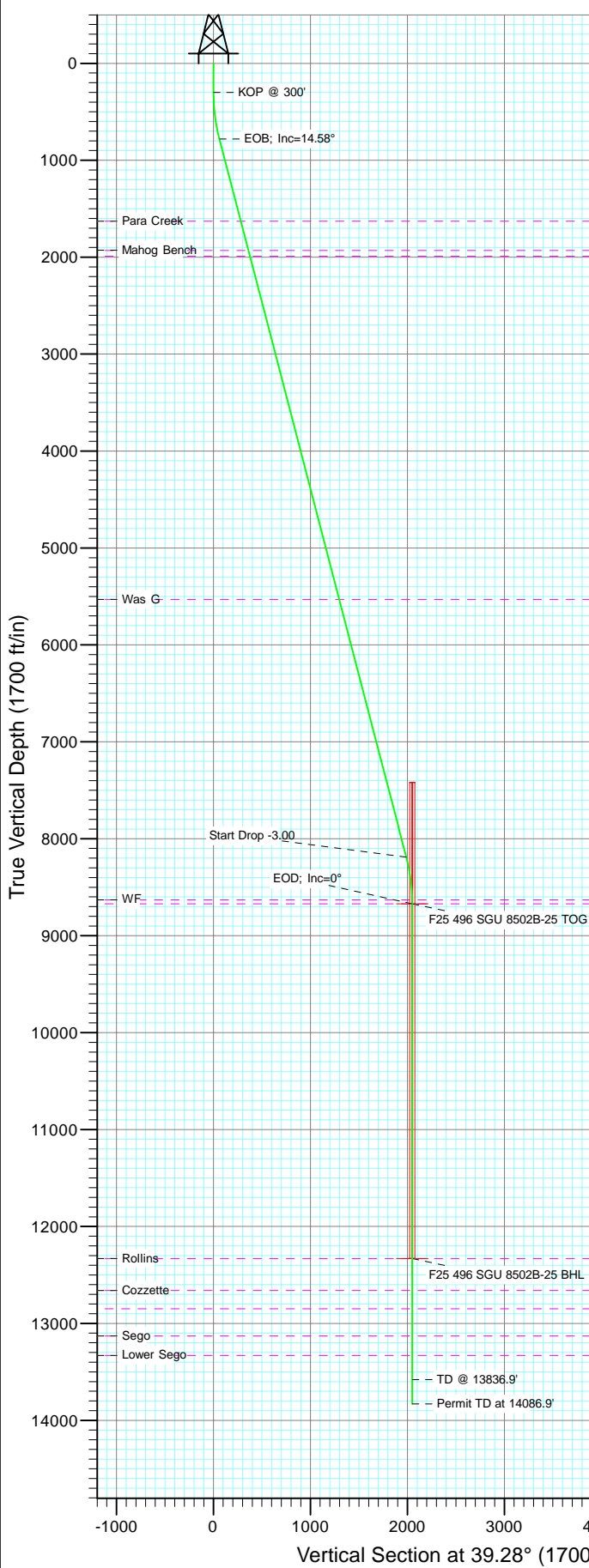


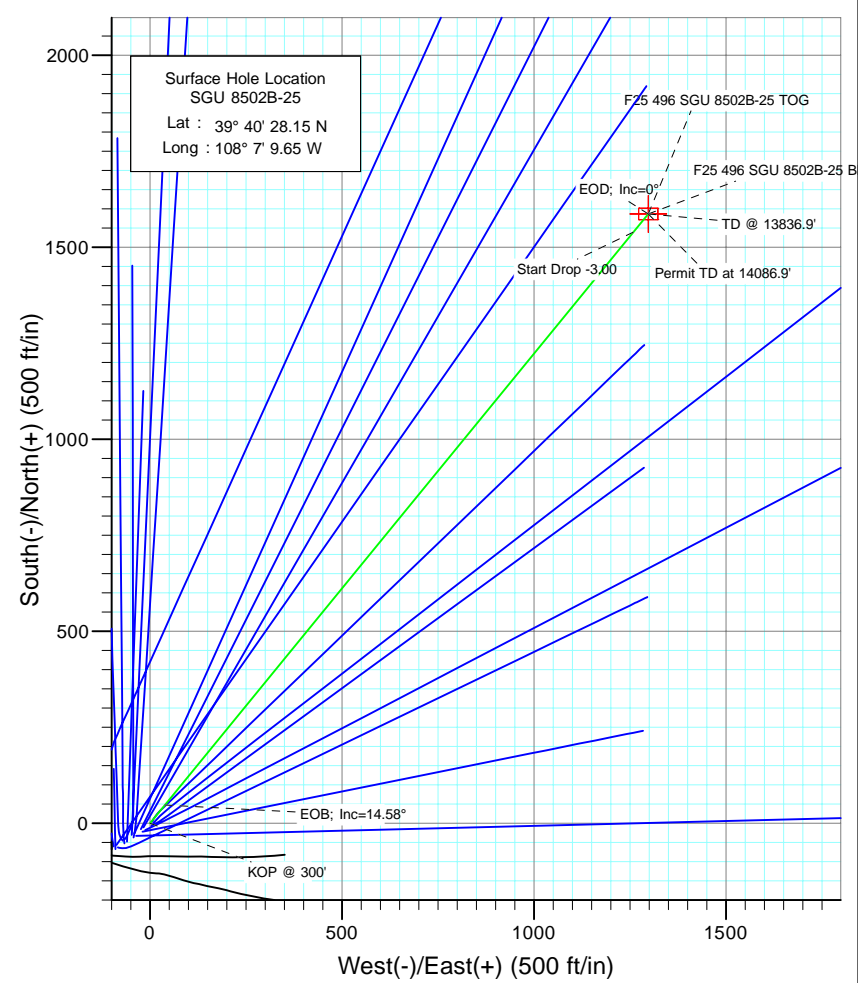


Project: Story Gulch
 Site: F25 496
 Well: SGU 8502B-25
 Wellbore: DD
 Design: Plan #1



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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	786.0	14.58	39.28	780.7	47.6	38.9	3.00	39.28	61.5	
4	441.0	14.58	39.28	8189.3	1539.2	1258.7	0.00	0.00	1988.3	
5	8926.9	0.00	0.00	8670.0	1586.8	1297.6	3.00	180.00	2049.8	F25 496 SGU 8502B-25 TOG
6	2586.9	0.00	0.00	12330.0	1586.8	1297.6	0.00	0.00	2049.8	F25 496 SGU 8502B-25 BHL
7	3836.9	0.00	0.00	13580.0	1586.8	1297.6	0.00	0.00	2049.8	
8	4086.9	0.00	0.00	13830.0	1586.8	1297.6	0.00	0.00	2049.8	



Bottom Hole Location
 SGU 8502B-25
 Lat : 39 40 43.83 N
 Long. : 108 6 35.05 W

Azimuths to True North
 Magnetic North: 10.55°
 Magnetic Field
 Strength: 52453.6snT
 Dip Angle: 65.90°
 Date: 5/6/2010
 Model: IGRF200510

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1630.0	1663.5	Para Creek
1930.0	1973.5	Mahog Bench
1990.0	2035.5	Base B
5530.0	5693.2	Was G
8630.0	8886.9	WF
8670.0	8926.9	TOG
12330.0	12586.9	Rollins
12860.0	12916.9	Cozzette
12850.0	13106.9	Corcoran
13130.0	13386.9	Sego
13330.0	13586.9	Lower Sego

DESIGN DETAILS: Plan #1
 105XXX; BH
 KBE @ 8320.0ft (Original Well Elev)

Target	Azimuth	Origin	N/S	E/W	From TVD
F25 496 SGU 8502B-25 BHL	39.28	Slot	0.0	0.0	0.0

Cathedral Energy Services

Planning Report

Database: EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference: Well SGU 8502B-25
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: KBE @ 8320.0ft (Original Well Elev)
Project: Story Gulch	MD Reference: KBE @ 8320.0ft (Original Well Elev)
Site: F25 496	North Reference: True
Well: SGU 8502B-25	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 F25 496					
Site Position:		Northing:	1,681,091.06 ft	Latitude:	39° 40' 27.10 N
From:	Lat/Long	Easting:	2,262,632.54 ft	Longitude:	108° 7' 11.76 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well SGU 8502B-25					
Well Position	+N/-S	0.0 ft	Northing:	1,681,192.07 ft	Latitude: 39° 40' 28.15 N
	+E/-W	0.0 ft	Easting:	2,262,800.42 ft	Longitude: 108° 7' 9.65 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 8,298.0 ft

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	5/6/2010	(°)	(°)	(nT)
			10.55	65.90	52,454

Design Plan #1					
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	39.28	

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
786.0	14.58	39.28	780.7	47.6	38.9	3.00	3.00	0.00	39.28	
8,441.0	14.58	39.28	8,189.3	1,539.2	1,258.7	0.00	0.00	0.00	0.00	
8,926.9	0.00	0.00	8,670.0	1,586.8	1,297.6	3.00	-3.00	0.00	180.00	F25 496 SGU 8502B-
12,586.9	0.00	0.00	12,330.0	1,586.8	1,297.6	0.00	0.00	0.00	0.00	F25 496 SGU 8502B-
13,836.9	0.00	0.00	13,580.0	1,586.8	1,297.6	0.00	0.00	0.00	0.00	
14,086.9	0.00	0.00	13,830.0	1,586.8	1,297.6	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 SGU 8502B-25
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8320.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8320.0ft (Original Well Elev)
Site:	F25 496	North Reference:	True
Well:	SGU 8502B-25	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	KOP @ 300'
400.0	3.00	39.28	400.0	2.0	1.7	2.6	3.00	3.00	
500.0	6.00	39.28	499.6	8.1	6.6	10.5	3.00	3.00	
600.0	9.00	39.28	598.8	18.2	14.9	23.5	3.00	3.00	
700.0	12.00	39.28	697.1	32.3	26.4	41.7	3.00	3.00	
786.0	14.58	39.28	780.7	47.6	38.9	61.5	3.00	3.00	EOB; Inc=14.58°
800.0	14.58	39.28	794.3	50.3	41.2	65.0	0.00	0.00	
900.0	14.58	39.28	891.1	69.8	57.1	90.2	0.00	0.00	
1,000.0	14.58	39.28	987.9	89.3	73.0	115.4	0.00	0.00	
1,100.0	14.58	39.28	1,084.7	108.8	89.0	140.5	0.00	0.00	
1,200.0	14.58	39.28	1,181.4	128.3	104.9	165.7	0.00	0.00	
1,300.0	14.58	39.28	1,278.2	147.8	120.8	190.9	0.00	0.00	
1,400.0	14.58	39.28	1,375.0	167.2	136.8	216.1	0.00	0.00	
1,500.0	14.58	39.28	1,471.8	186.7	152.7	241.2	0.00	0.00	
1,600.0	14.58	39.28	1,568.6	206.2	168.6	266.4	0.00	0.00	
1,663.5	14.58	39.28	1,630.0	218.6	178.8	282.4	0.00	0.00	Para Creek
1,700.0	14.58	39.28	1,665.3	225.7	184.6	291.6	0.00	0.00	
1,800.0	14.58	39.28	1,762.1	245.2	200.5	316.7	0.00	0.00	
1,900.0	14.58	39.28	1,858.9	264.7	216.4	341.9	0.00	0.00	
1,973.5	14.58	39.28	1,930.0	279.0	228.1	360.4	0.00	0.00	Mahog Bench
2,000.0	14.58	39.28	1,955.7	284.2	232.4	367.1	0.00	0.00	
2,035.5	14.58	39.28	1,990.0	291.1	238.0	376.0	0.00	0.00	Base B
2,100.0	14.58	39.28	2,052.5	303.6	248.3	392.2	0.00	0.00	
2,200.0	14.58	39.28	2,149.2	323.1	264.2	417.4	0.00	0.00	
2,300.0	14.58	39.28	2,246.0	342.6	280.2	442.6	0.00	0.00	
2,400.0	14.58	39.28	2,342.8	362.1	296.1	467.8	0.00	0.00	
2,500.0	14.58	39.28	2,439.6	381.6	312.0	492.9	0.00	0.00	
2,600.0	14.58	39.28	2,536.4	401.1	328.0	518.1	0.00	0.00	
2,700.0	14.58	39.28	2,633.1	420.6	343.9	543.3	0.00	0.00	
2,800.0	14.58	39.28	2,729.9	440.0	359.9	568.4	0.00	0.00	
2,900.0	14.58	39.28	2,826.7	459.5	375.8	593.6	0.00	0.00	
3,000.0	14.58	39.28	2,923.5	479.0	391.7	618.8	0.00	0.00	
3,100.0	14.58	39.28	3,020.3	498.5	407.7	644.0	0.00	0.00	
3,200.0	14.58	39.28	3,117.0	518.0	423.6	669.1	0.00	0.00	
3,300.0	14.58	39.28	3,213.8	537.5	439.5	694.3	0.00	0.00	
3,400.0	14.58	39.28	3,310.6	557.0	455.5	719.5	0.00	0.00	
3,500.0	14.58	39.28	3,407.4	576.4	471.4	744.6	0.00	0.00	
3,600.0	14.58	39.28	3,504.2	595.9	487.3	769.8	0.00	0.00	
3,700.0	14.58	39.28	3,600.9	615.4	503.3	795.0	0.00	0.00	
3,800.0	14.58	39.28	3,697.7	634.9	519.2	820.2	0.00	0.00	
3,900.0	14.58	39.28	3,794.5	654.4	535.1	845.3	0.00	0.00	
4,000.0	14.58	39.28	3,891.3	673.9	551.1	870.5	0.00	0.00	
4,100.0	14.58	39.28	3,988.1	693.3	567.0	895.7	0.00	0.00	
4,200.0	14.58	39.28	4,084.9	712.8	582.9	920.8	0.00	0.00	
4,300.0	14.58	39.28	4,181.6	732.3	598.9	946.0	0.00	0.00	
4,400.0	14.58	39.28	4,278.4	751.8	614.8	971.2	0.00	0.00	
4,500.0	14.58	39.28	4,375.2	771.3	630.7	996.3	0.00	0.00	
4,600.0	14.58	39.28	4,472.0	790.8	646.7	1,021.5	0.00	0.00	
4,700.0	14.58	39.28	4,568.8	810.3	662.6	1,046.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well SGU 8502B-25
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8320.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8320.0ft (Original Well Elev)
Site:	F25 496	North Reference:	True
Well:	SGU 8502B-25	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
4,800.0	14.58	39.28	4,665.5	829.7	678.5	1,071.9	0.00	0.00	
4,900.0	14.58	39.28	4,762.3	849.2	694.5	1,097.0	0.00	0.00	
5,000.0	14.58	39.28	4,859.1	868.7	710.4	1,122.2	0.00	0.00	
5,100.0	14.58	39.28	4,955.9	888.2	726.3	1,147.4	0.00	0.00	
5,200.0	14.58	39.28	5,052.7	907.7	742.3	1,172.5	0.00	0.00	
5,300.0	14.58	39.28	5,149.4	927.2	758.2	1,197.7	0.00	0.00	
5,400.0	14.58	39.28	5,246.2	946.7	774.1	1,222.9	0.00	0.00	
5,500.0	14.58	39.28	5,343.0	966.1	790.1	1,248.1	0.00	0.00	
5,600.0	14.58	39.28	5,439.8	985.6	806.0	1,273.2	0.00	0.00	
5,693.2	14.58	39.28	5,530.0	1,003.8	820.9	1,296.7	0.00	0.00	Was G
5,700.0	14.58	39.28	5,536.6	1,005.1	821.9	1,298.4	0.00	0.00	
5,800.0	14.58	39.28	5,633.3	1,024.6	837.9	1,323.6	0.00	0.00	
5,900.0	14.58	39.28	5,730.1	1,044.1	853.8	1,348.7	0.00	0.00	
6,000.0	14.58	39.28	5,826.9	1,063.6	869.7	1,373.9	0.00	0.00	
6,100.0	14.58	39.28	5,923.7	1,083.1	885.7	1,399.1	0.00	0.00	
6,200.0	14.58	39.28	6,020.5	1,102.5	901.6	1,424.3	0.00	0.00	
6,300.0	14.58	39.28	6,117.2	1,122.0	917.6	1,449.4	0.00	0.00	
6,400.0	14.58	39.28	6,214.0	1,141.5	933.5	1,474.6	0.00	0.00	
6,500.0	14.58	39.28	6,310.8	1,161.0	949.4	1,499.8	0.00	0.00	
6,600.0	14.58	39.28	6,407.6	1,180.5	965.4	1,524.9	0.00	0.00	
6,700.0	14.58	39.28	6,504.4	1,200.0	981.3	1,550.1	0.00	0.00	
6,800.0	14.58	39.28	6,601.1	1,219.4	997.2	1,575.3	0.00	0.00	
6,900.0	14.58	39.28	6,697.9	1,238.9	1,013.2	1,600.5	0.00	0.00	
7,000.0	14.58	39.28	6,794.7	1,258.4	1,029.1	1,625.6	0.00	0.00	
7,100.0	14.58	39.28	6,891.5	1,277.9	1,045.0	1,650.8	0.00	0.00	
7,200.0	14.58	39.28	6,988.3	1,297.4	1,061.0	1,676.0	0.00	0.00	
7,300.0	14.58	39.28	7,085.0	1,316.9	1,076.9	1,701.1	0.00	0.00	
7,400.0	14.58	39.28	7,181.8	1,336.4	1,092.8	1,726.3	0.00	0.00	
7,500.0	14.58	39.28	7,278.6	1,355.8	1,108.8	1,751.5	0.00	0.00	
7,600.0	14.58	39.28	7,375.4	1,375.3	1,124.7	1,776.6	0.00	0.00	
7,700.0	14.58	39.28	7,472.2	1,394.8	1,140.6	1,801.8	0.00	0.00	
7,800.0	14.58	39.28	7,568.9	1,414.3	1,156.6	1,827.0	0.00	0.00	
7,900.0	14.58	39.28	7,665.7	1,433.8	1,172.5	1,852.2	0.00	0.00	
8,000.0	14.58	39.28	7,762.5	1,453.3	1,188.4	1,877.3	0.00	0.00	
8,100.0	14.58	39.28	7,859.3	1,472.8	1,204.4	1,902.5	0.00	0.00	
8,200.0	14.58	39.28	7,956.1	1,492.2	1,220.3	1,927.7	0.00	0.00	
8,300.0	14.58	39.28	8,052.8	1,511.7	1,236.2	1,952.8	0.00	0.00	
8,400.0	14.58	39.28	8,149.6	1,531.2	1,252.2	1,978.0	0.00	0.00	
8,441.0	14.58	39.28	8,189.3	1,539.2	1,258.7	1,988.3	0.00	0.00	Start Drop -3.00
8,500.0	12.81	39.28	8,246.6	1,550.0	1,267.5	2,002.3	3.00	-3.00	
8,600.0	9.81	39.28	8,344.7	1,565.2	1,280.0	2,021.9	3.00	-3.00	
8,700.0	6.81	39.28	8,443.6	1,576.4	1,289.1	2,036.4	3.00	-3.00	
8,800.0	3.81	39.28	8,543.2	1,583.5	1,295.0	2,045.6	3.00	-3.00	
8,886.9	1.20	39.28	8,630.0	1,586.5	1,297.4	2,049.4	3.00	-3.00	WF
8,900.0	0.81	39.28	8,643.1	1,586.6	1,297.5	2,049.6	3.00	-3.00	
8,926.9	0.00	0.00	8,670.0	1,586.8	1,297.6	2,049.8	3.00	-3.00	EOD; Inc=0° - TOG - F25 496 SGU 8502B-25 T
9,000.0	0.00	0.00	8,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,100.0	0.00	0.00	8,843.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,200.0	0.00	0.00	8,943.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,300.0	0.00	0.00	9,043.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,400.0	0.00	0.00	9,143.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,500.0	0.00	0.00	9,243.1	1,586.8	1,297.6	2,049.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well SGU 8502B-25
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8320.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8320.0ft (Original Well Elev)
Site:	F25 496	North Reference:	True
Well:	SGU 8502B-25	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	0.00	0.00	9,343.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,700.0	0.00	0.00	9,443.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,800.0	0.00	0.00	9,543.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
9,900.0	0.00	0.00	9,643.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,000.0	0.00	0.00	9,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,100.0	0.00	0.00	9,843.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,200.0	0.00	0.00	9,943.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,300.0	0.00	0.00	10,043.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,400.0	0.00	0.00	10,143.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,500.0	0.00	0.00	10,243.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,600.0	0.00	0.00	10,343.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,700.0	0.00	0.00	10,443.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,800.0	0.00	0.00	10,543.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
10,900.0	0.00	0.00	10,643.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,000.0	0.00	0.00	10,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,100.0	0.00	0.00	10,843.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,200.0	0.00	0.00	10,943.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,300.0	0.00	0.00	11,043.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,400.0	0.00	0.00	11,143.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,500.0	0.00	0.00	11,243.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,600.0	0.00	0.00	11,343.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,700.0	0.00	0.00	11,443.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,800.0	0.00	0.00	11,543.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
11,900.0	0.00	0.00	11,643.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,000.0	0.00	0.00	11,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,100.0	0.00	0.00	11,843.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,200.0	0.00	0.00	11,943.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,300.0	0.00	0.00	12,043.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,400.0	0.00	0.00	12,143.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,500.0	0.00	0.00	12,243.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,586.9	0.00	0.00	12,330.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Rollins - F25 496 SGU 8502B-25 BHL
12,600.0	0.00	0.00	12,343.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,700.0	0.00	0.00	12,443.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,800.0	0.00	0.00	12,543.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,900.0	0.00	0.00	12,643.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
12,916.9	0.00	0.00	12,660.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Cozzette
13,000.0	0.00	0.00	12,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,100.0	0.00	0.00	12,843.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,106.9	0.00	0.00	12,850.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Corcoran
13,200.0	0.00	0.00	12,943.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,300.0	0.00	0.00	13,043.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,386.9	0.00	0.00	13,130.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Sego
13,400.0	0.00	0.00	13,143.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,500.0	0.00	0.00	13,243.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,586.9	0.00	0.00	13,330.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Lower Sego
13,600.0	0.00	0.00	13,343.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,700.0	0.00	0.00	13,443.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,800.0	0.00	0.00	13,543.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
13,836.9	0.00	0.00	13,580.0	1,586.8	1,297.6	2,049.8	0.00	0.00	TD @ 13836.9'
13,900.0	0.00	0.00	13,643.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
14,000.0	0.00	0.00	13,743.1	1,586.8	1,297.6	2,049.8	0.00	0.00	
14,086.9	0.00	0.00	13,830.0	1,586.8	1,297.6	2,049.8	0.00	0.00	Permit TD at 14086.9'

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well SGU 8502B-25
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8320.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8320.0ft (Original Well Elev)
Site:	F25 496	North Reference:	True
Well:	SGU 8502B-25	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

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
F25 496 SGU 8502B-25 - hit/miss target - Shape - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	12,330.0	1,586.8	1,297.6	1,682,740.80	2,264,143.26	39° 40' 43.83 N	108° 6' 53.05 W
F25 496 SGU 8502B-25 - plan hits target center - Point	0.00	0.00	8,670.0	1,586.8	1,297.6	1,682,740.80	2,264,143.26	39° 40' 43.83 N	108° 6' 53.05 W

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,663.5	1,630.0	Para Creek		0.00	
1,973.5	1,930.0	Mahog Bench		0.00	
2,035.5	1,990.0	Base B		0.00	
5,693.2	5,530.0	Was G		0.00	
8,886.9	8,630.0	WF		0.00	
8,926.9	8,670.0	TOG		0.00	
12,586.9	12,330.0	Rollins		0.00	
12,916.9	12,660.0	Cozzette		0.00	
13,106.9	12,850.0	Corcoran		0.00	
13,386.9	13,130.0	Sego		0.00	
13,586.9	13,330.0	Lower Sego		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
786.0	780.7	47.6	38.9	EOB; Inc=14.58°
8,441.0	8,189.3	1,539.2	1,258.7	Start Drop -3.00
8,926.9	8,670.0	1,586.8	1,297.6	EOD; Inc=0°
13,836.9	13,580.0	1,586.8	1,297.6	TD @ 13836.9'
14,086.9	13,830.0	1,586.8	1,297.6	Permit TD at 14086.9'