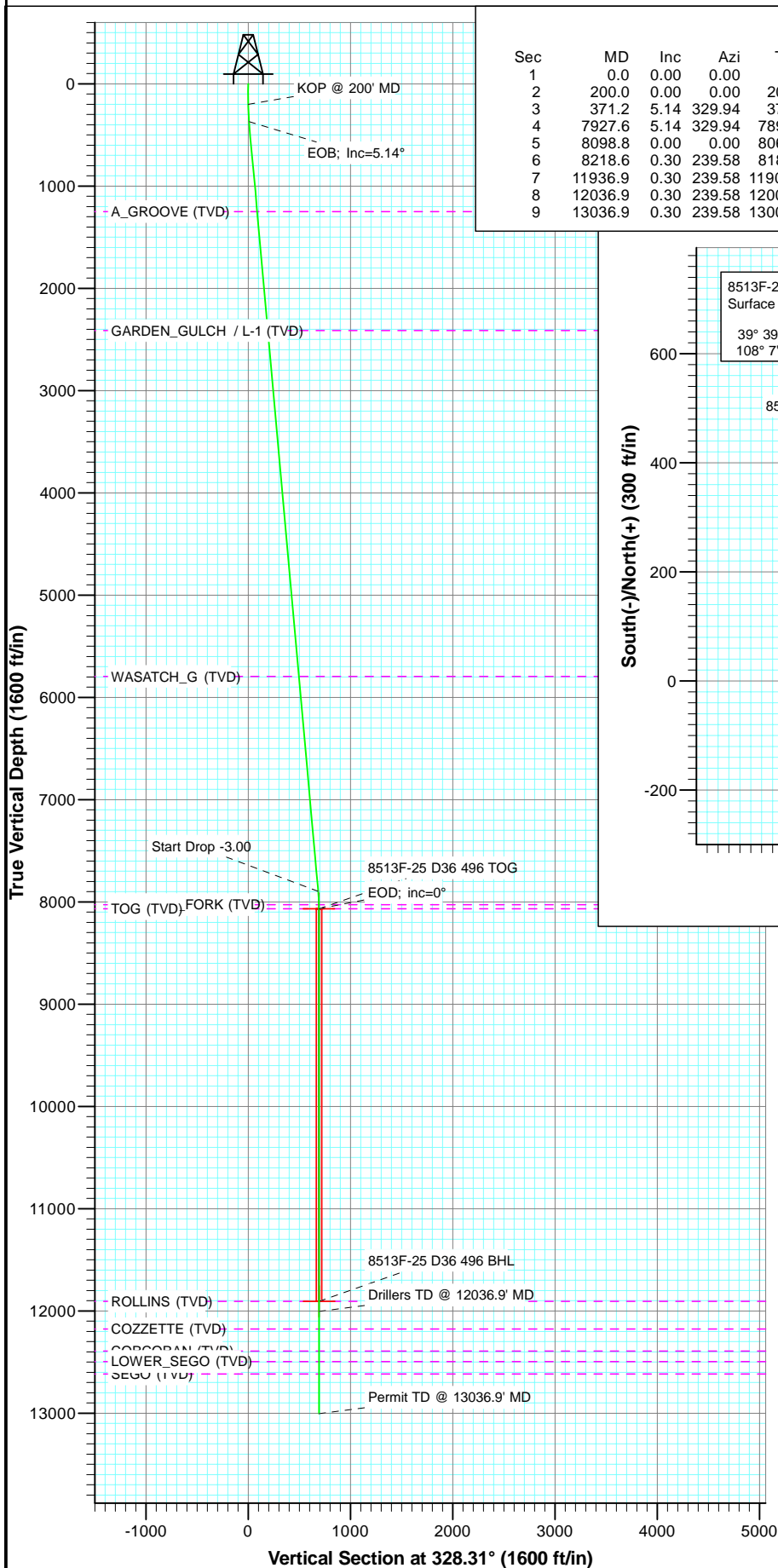


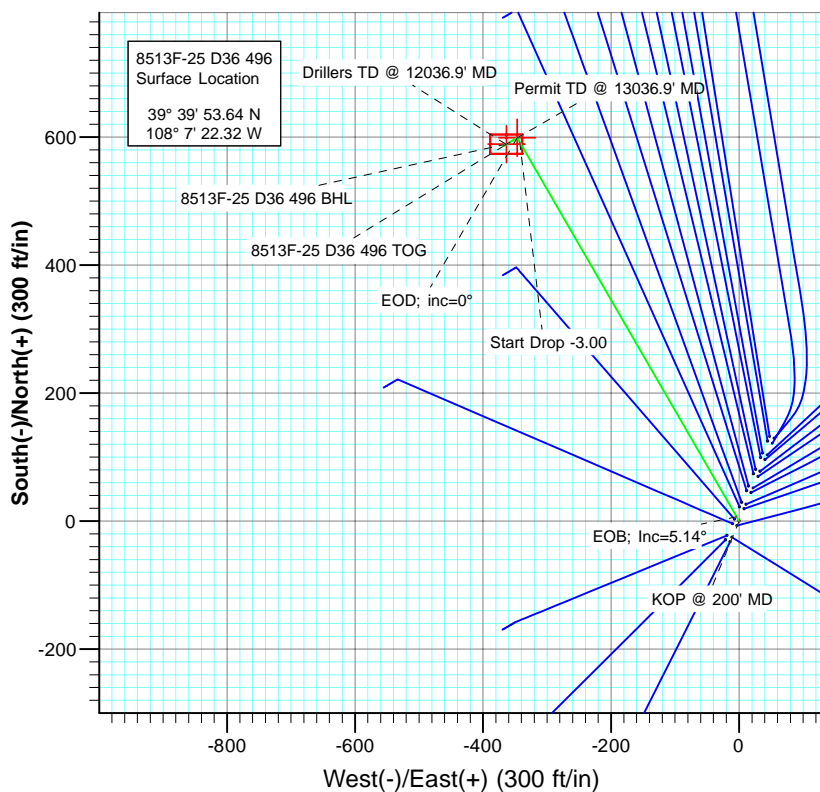


Project: Story Gulch
Site: S36-T4S-R96W (D36 496)
Well: 8513F-25 D36 496
Wellbore: DD
Plan: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	371.2	5.14	329.94	371.0	6.6	-3.8	3.00	329.94	7.7	
4	7927.6	5.14	329.94	7897.0	592.3	-342.8	0.00	0.00	684.0	
5	8098.8	0.00	0.00	8068.0	598.9	-346.6	3.00	180.00	691.7	8513F-25 D36 496 TOG
6	8218.6	0.30	239.58	8187.8	598.7	-346.9	0.25	239.58	691.7	
7	11936.9	0.30	239.58	11906.0	588.9	-363.6	0.00	0.00	692.1	8513F-25 D36 496 BHL
8	12036.9	0.30	239.58	12006.0	588.6	-364.1	0.00	0.00	692.1	
9	13036.9	0.30	239.58	13006.0	586.0	-368.6	0.00	0.00	692.3	



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1250.0	1253.8	A_GROOVE (TVD)
2414.0	2422.5	GARDEN_GULCH / L-1 (TVD)
5796.0	5818.1	WASATCH_G (TVD)
8028.0	8058.8	WILLIAMS_FORK (TVD)
8068.0	8098.8	TOG (TVD)
11906.0	11936.9	ROLLINS (TVD)
12176.0	12206.9	COZZETTE (TVD)
12393.0	12423.9	CORCORAN (TVD)
12495.0	12525.9	LOWER_SEGO (TVD)
12616.0	12646.9	SEGO (TVD)



Azimuths to True North
Magnetic North: 10.43°
Magnetic Field
Strength: 52308.8nT
Dip Angle: 65.86°
Date: 6/7/2011
Model: IGRF2010

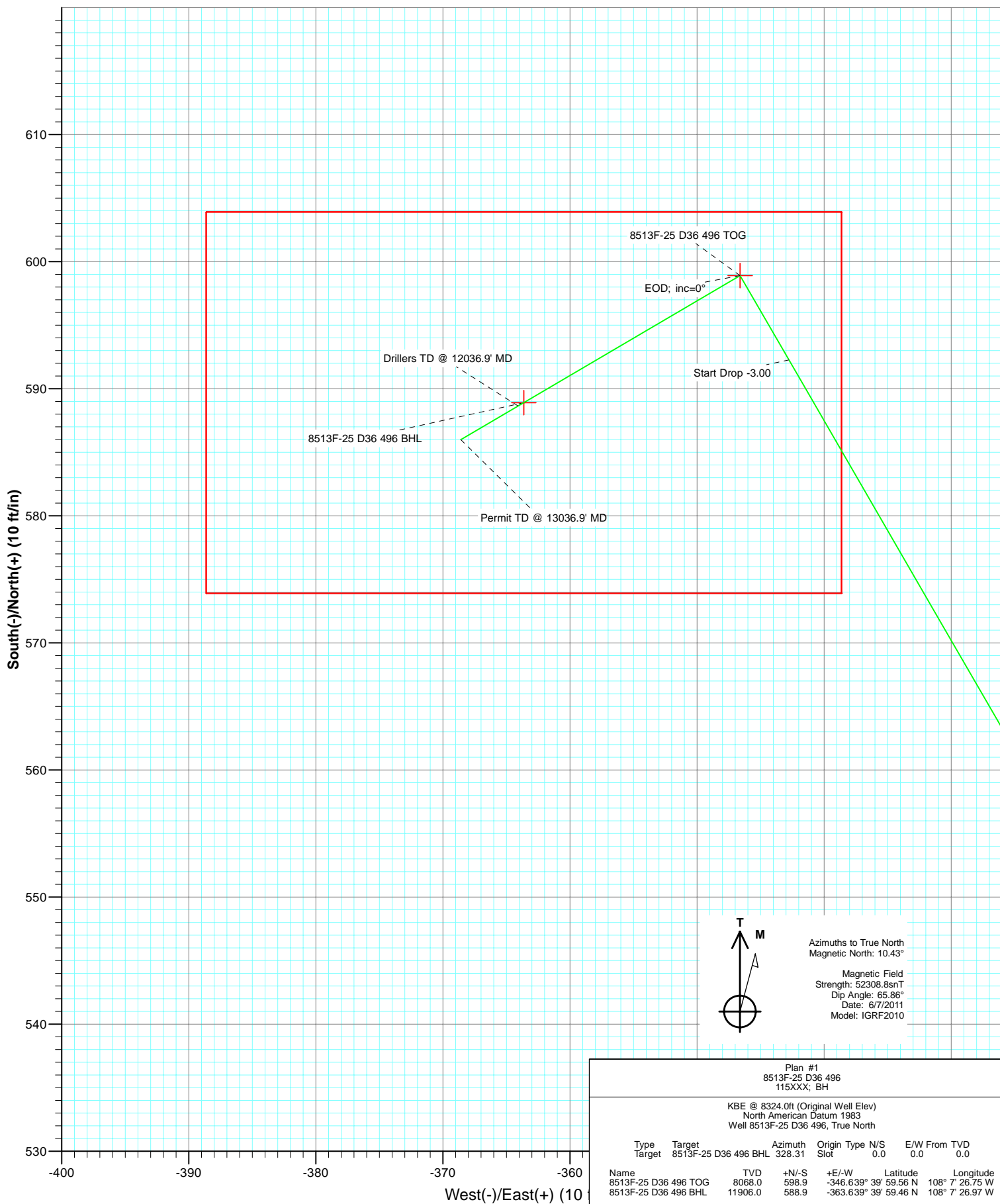
Plan #1
8513F-25 D36 496
115XXX; BH

KBE @ 8324.0ft (Original Well Elev)
North American Datum 1983
Well 8513F-25 D36 496, True North

Type	Target	Target	Azimuth	Origin	Type	N/S	E/W	From
		8513F-25 D36 496 BHL	328.31	Slot		0.0	0.0	0.0
Name	Target	TVD	+N/-S	+E/-W	Latitude	Longitude		
8513F-25 D36 496 TOG	8068.0	598.9	-346.639°	39° 59.56 N	108° 7' 26.75 W			
8513F-25 D36 496 BHL	11906.0	588.9	-363.639°	39° 59.46 N	108° 7' 26.97 W			



Project: Story Gulch
Site: S36-T4S-R96W (D36 496)
Well: 8513F-25 D36 496
Wellbore: DD
Plan: Plan #1



Plan #1 8513F-25 D36 496 115XXX; BH							
KBE @ 8324.0ft (Original Well Elev) North American Datum 1983 Well 8513F-25 D36 496, True North							
Type	Target	Target	8513F-25 D36 496 BHL	Azimuth	328.31	Origin Type	N/S 0.0
							E/W From TVD 0.0
Name		TVD	+N/-S	+E/-W	Latitude	Longitude	
8513F-25 D36 496 TOG		8068.0	598.9	-346.639° 39'	59.56 N	108° 7' 26.75 W	
8513F-25 D36 496 BHL		11906.0	588.9	-363.639° 39'	59.46 N	108° 7' 26.97 W	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8513F-25 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8513F-25 D36 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	S36-T4S-R96W (D36 496)			
Site Position:		Northing:	1,677,676.10 ft	Latitude: 39° 39' 53.09 N
From:	Lat/Long	Easting:	2,261,675.01 ft	Longitude: 108° 7' 22.74 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -1.65 °

Well	8513F-25 D36 496			
Well Position	+N/-S	0.0 ft	Northing:	1,677,730.45 ft
	+E/-W	0.0 ft	Easting:	2,261,709.12 ft
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft
			Ground Level:	8,293.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/7/2011	10.43	65.86	52,309

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	328.31

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
371.2	5.14	329.94	371.0	6.6	-3.8	3.00	3.00	0.00	329.94	
7,927.6	5.14	329.94	7,897.0	592.3	-342.8	0.00	0.00	0.00	0.00	
8,098.8	0.00	0.00	8,068.0	598.9	-346.6	3.00	-3.00	0.00	180.00	8513F-25 D36 496 TC
8,218.6	0.30	239.58	8,187.8	598.7	-346.9	0.25	0.25	-100.54	239.58	
11,936.9	0.30	239.58	11,906.0	588.9	-363.6	0.00	0.00	0.00	0.00	8513F-25 D36 496 Bt
12,036.9	0.30	239.58	12,006.0	588.6	-364.1	0.00	0.00	0.00	0.00	
13,036.9	0.30	239.58	13,006.0	586.0	-368.6	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 8513F-25 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8513F-25 D36 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	KOP @ 200' MD
300.0	3.00	329.94	300.0	2.3	-1.3	2.6	3.00	3.00	
371.2	5.14	329.94	371.0	6.6	-3.8	7.7	3.00	3.00	EOB; Inc=5.14°
400.0	5.14	329.94	399.7	8.9	-5.1	10.2	0.00	0.00	
500.0	5.14	329.94	499.3	16.6	-9.6	19.2	0.00	0.00	
600.0	5.14	329.94	598.9	24.4	-14.1	28.1	0.00	0.00	
700.0	5.14	329.94	698.4	32.1	-18.6	37.1	0.00	0.00	
800.0	5.14	329.94	798.0	39.9	-23.1	46.0	0.00	0.00	
900.0	5.14	329.94	897.6	47.6	-27.6	55.0	0.00	0.00	
1,000.0	5.14	329.94	997.2	55.4	-32.0	63.9	0.00	0.00	
1,100.0	5.14	329.94	1,096.8	63.1	-36.5	72.9	0.00	0.00	
1,200.0	5.14	329.94	1,196.4	70.9	-41.0	81.8	0.00	0.00	
1,253.8	5.14	329.94	1,250.0	75.0	-43.4	86.7	0.00	0.00	A_GROOVE (TVD)
1,300.0	5.14	329.94	1,296.0	78.6	-45.5	90.8	0.00	0.00	
1,400.0	5.14	329.94	1,395.6	86.4	-50.0	99.8	0.00	0.00	
1,500.0	5.14	329.94	1,495.2	94.1	-54.5	108.7	0.00	0.00	
1,600.0	5.14	329.94	1,594.8	101.9	-59.0	117.7	0.00	0.00	
1,700.0	5.14	329.94	1,694.4	109.6	-63.4	126.6	0.00	0.00	
1,800.0	5.14	329.94	1,794.0	117.4	-67.9	135.6	0.00	0.00	
1,900.0	5.14	329.94	1,893.6	125.1	-72.4	144.5	0.00	0.00	
2,000.0	5.14	329.94	1,993.2	132.9	-76.9	153.5	0.00	0.00	
2,100.0	5.14	329.94	2,092.8	140.6	-81.4	162.4	0.00	0.00	
2,200.0	5.14	329.94	2,192.4	148.4	-85.9	171.4	0.00	0.00	
2,300.0	5.14	329.94	2,292.0	156.1	-90.4	180.3	0.00	0.00	
2,400.0	5.14	329.94	2,391.6	163.9	-94.8	189.3	0.00	0.00	
2,422.5	5.14	329.94	2,414.0	165.6	-95.8	191.3	0.00	0.00	GARDEN_GULCH / L-1 (TVD)
2,500.0	5.14	329.94	2,491.2	171.6	-99.3	198.2	0.00	0.00	
2,600.0	5.14	329.94	2,590.8	179.4	-103.8	207.2	0.00	0.00	
2,700.0	5.14	329.94	2,690.4	187.1	-108.3	216.1	0.00	0.00	
2,800.0	5.14	329.94	2,790.0	194.9	-112.8	225.1	0.00	0.00	
2,900.0	5.14	329.94	2,889.6	202.6	-117.3	234.0	0.00	0.00	
3,000.0	5.14	329.94	2,989.2	210.4	-121.7	243.0	0.00	0.00	
3,100.0	5.14	329.94	3,088.8	218.1	-126.2	251.9	0.00	0.00	
3,200.0	5.14	329.94	3,188.4	225.9	-130.7	260.9	0.00	0.00	
3,300.0	5.14	329.94	3,288.0	233.6	-135.2	269.8	0.00	0.00	
3,400.0	5.14	329.94	3,387.6	241.4	-139.7	278.8	0.00	0.00	
3,500.0	5.14	329.94	3,487.2	249.1	-144.2	287.7	0.00	0.00	
3,600.0	5.14	329.94	3,586.8	256.9	-148.7	296.7	0.00	0.00	
3,700.0	5.14	329.94	3,686.4	264.6	-153.1	305.6	0.00	0.00	
3,800.0	5.14	329.94	3,786.0	272.4	-157.6	314.6	0.00	0.00	
3,900.0	5.14	329.94	3,885.6	280.1	-162.1	323.5	0.00	0.00	
4,000.0	5.14	329.94	3,985.2	287.9	-166.6	332.5	0.00	0.00	
4,100.0	5.14	329.94	4,084.8	295.6	-171.1	341.4	0.00	0.00	
4,200.0	5.14	329.94	4,184.4	303.4	-175.6	350.4	0.00	0.00	
4,300.0	5.14	329.94	4,284.0	311.1	-180.1	359.3	0.00	0.00	
4,400.0	5.14	329.94	4,383.6	318.9	-184.5	368.3	0.00	0.00	
4,500.0	5.14	329.94	4,483.2	326.6	-189.0	377.2	0.00	0.00	
4,600.0	5.14	329.94	4,582.8	334.4	-193.5	386.2	0.00	0.00	
4,700.0	5.14	329.94	4,682.4	342.1	-198.0	395.1	0.00	0.00	
4,800.0	5.14	329.94	4,782.0	349.9	-202.5	404.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8513F-25 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8513F-25 D36 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	5.14	329.94	4,881.6	357.6	-207.0	413.0	0.00	0.00	
5,000.0	5.14	329.94	4,981.2	365.4	-211.5	422.0	0.00	0.00	
5,100.0	5.14	329.94	5,080.8	373.1	-215.9	430.9	0.00	0.00	
5,200.0	5.14	329.94	5,180.4	380.9	-220.4	439.9	0.00	0.00	
5,300.0	5.14	329.94	5,280.0	388.6	-224.9	448.8	0.00	0.00	
5,400.0	5.14	329.94	5,379.6	396.4	-229.4	457.8	0.00	0.00	
5,500.0	5.14	329.94	5,479.2	404.1	-233.9	466.7	0.00	0.00	
5,600.0	5.14	329.94	5,578.8	411.9	-238.4	475.7	0.00	0.00	
5,700.0	5.14	329.94	5,678.4	419.6	-242.8	484.6	0.00	0.00	
5,800.0	5.14	329.94	5,778.0	427.4	-247.3	493.6	0.00	0.00	
5,818.1	5.14	329.94	5,796.0	428.8	-248.1	495.2	0.00	0.00	WASATCH_G (TVD)
5,900.0	5.14	329.94	5,877.6	435.1	-251.8	502.5	0.00	0.00	
6,000.0	5.14	329.94	5,977.2	442.9	-256.3	511.5	0.00	0.00	
6,100.0	5.14	329.94	6,076.8	450.6	-260.8	520.4	0.00	0.00	
6,200.0	5.14	329.94	6,176.4	458.4	-265.3	529.4	0.00	0.00	
6,300.0	5.14	329.94	6,276.0	466.1	-269.8	538.3	0.00	0.00	
6,400.0	5.14	329.94	6,375.6	473.9	-274.2	547.3	0.00	0.00	
6,500.0	5.14	329.94	6,475.2	481.6	-278.7	556.2	0.00	0.00	
6,600.0	5.14	329.94	6,574.7	489.4	-283.2	565.2	0.00	0.00	
6,700.0	5.14	329.94	6,674.3	497.1	-287.7	574.1	0.00	0.00	
6,800.0	5.14	329.94	6,773.9	504.9	-292.2	583.1	0.00	0.00	
6,900.0	5.14	329.94	6,873.5	512.6	-296.7	592.0	0.00	0.00	
7,000.0	5.14	329.94	6,973.1	520.4	-301.2	601.0	0.00	0.00	
7,100.0	5.14	329.94	7,072.7	528.1	-305.6	609.9	0.00	0.00	
7,200.0	5.14	329.94	7,172.3	535.9	-310.1	618.9	0.00	0.00	
7,300.0	5.14	329.94	7,271.9	543.6	-314.6	627.8	0.00	0.00	
7,400.0	5.14	329.94	7,371.5	551.4	-319.1	636.8	0.00	0.00	
7,500.0	5.14	329.94	7,471.1	559.1	-323.6	645.7	0.00	0.00	
7,600.0	5.14	329.94	7,570.7	566.9	-328.1	654.7	0.00	0.00	
7,700.0	5.14	329.94	7,670.3	574.6	-332.6	663.6	0.00	0.00	
7,800.0	5.14	329.94	7,769.9	582.4	-337.0	672.6	0.00	0.00	
7,900.0	5.14	329.94	7,869.5	590.1	-341.5	681.5	0.00	0.00	
7,927.6	5.14	329.94	7,897.0	592.3	-342.8	684.0	0.00	0.00	Start Drop -3.00
8,000.0	2.96	329.94	7,969.2	596.7	-345.3	689.1	3.00	-3.00	
8,058.8	1.20	329.94	8,028.0	598.5	-346.4	691.3	3.00	-3.00	WILLIAMS_FORK (TVD)
8,098.8	0.00	0.00	8,068.0	598.9	-346.6	691.7	3.00	-3.00	EOD; inc=0° - TOG (TVD) - 8513F-25 D36 496
8,100.0	0.00	239.58	8,069.2	598.9	-346.6	691.7	0.25	0.25	
8,200.0	0.25	239.58	8,169.2	598.8	-346.8	691.7	0.25	0.25	
8,218.6	0.30	239.58	8,187.8	598.7	-346.9	691.7	0.25	0.25	
8,300.0	0.30	239.58	8,269.2	598.5	-347.2	691.7	0.00	0.00	
8,400.0	0.30	239.58	8,369.2	598.3	-347.7	691.7	0.00	0.00	
8,500.0	0.30	239.58	8,469.2	598.0	-348.1	691.7	0.00	0.00	
8,600.0	0.30	239.58	8,569.2	597.7	-348.6	691.7	0.00	0.00	
8,700.0	0.30	239.58	8,669.2	597.5	-349.0	691.7	0.00	0.00	
8,800.0	0.30	239.58	8,769.2	597.2	-349.5	691.8	0.00	0.00	
8,900.0	0.30	239.58	8,869.2	596.9	-349.9	691.8	0.00	0.00	
9,000.0	0.30	239.58	8,969.2	596.7	-350.4	691.8	0.00	0.00	
9,100.0	0.30	239.58	9,069.2	596.4	-350.8	691.8	0.00	0.00	
9,200.0	0.30	239.58	9,169.2	596.1	-351.3	691.8	0.00	0.00	
9,300.0	0.30	239.58	9,269.2	595.9	-351.7	691.8	0.00	0.00	
9,400.0	0.30	239.58	9,369.2	595.6	-352.2	691.8	0.00	0.00	
9,500.0	0.30	239.58	9,469.2	595.4	-352.6	691.8	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8513F-25 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8513F-25 D36 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	239.58	9,569.2	595.1	-353.1	691.9	0.00	0.00	
9,700.0	0.30	239.58	9,669.2	594.8	-353.5	691.9	0.00	0.00	
9,800.0	0.30	239.58	9,769.2	594.6	-354.0	691.9	0.00	0.00	
9,900.0	0.30	239.58	9,869.2	594.3	-354.4	691.9	0.00	0.00	
10,000.0	0.30	239.58	9,969.2	594.0	-354.9	691.9	0.00	0.00	
10,100.0	0.30	239.58	10,069.2	593.8	-355.3	691.9	0.00	0.00	
10,200.0	0.30	239.58	10,169.2	593.5	-355.8	691.9	0.00	0.00	
10,300.0	0.30	239.58	10,269.2	593.2	-356.2	691.9	0.00	0.00	
10,400.0	0.30	239.58	10,369.2	593.0	-356.7	691.9	0.00	0.00	
10,500.0	0.30	239.58	10,469.2	592.7	-357.2	692.0	0.00	0.00	
10,600.0	0.30	239.58	10,569.2	592.4	-357.6	692.0	0.00	0.00	
10,700.0	0.30	239.58	10,669.2	592.2	-358.1	692.0	0.00	0.00	
10,800.0	0.30	239.58	10,769.2	591.9	-358.5	692.0	0.00	0.00	
10,900.0	0.30	239.58	10,869.1	591.7	-359.0	692.0	0.00	0.00	
11,000.0	0.30	239.58	10,969.1	591.4	-359.4	692.0	0.00	0.00	
11,100.0	0.30	239.58	11,069.1	591.1	-359.9	692.0	0.00	0.00	
11,200.0	0.30	239.58	11,169.1	590.9	-360.3	692.0	0.00	0.00	
11,300.0	0.30	239.58	11,269.1	590.6	-360.8	692.1	0.00	0.00	
11,400.0	0.30	239.58	11,369.1	590.3	-361.2	692.1	0.00	0.00	
11,500.0	0.30	239.58	11,469.1	590.1	-361.7	692.1	0.00	0.00	
11,600.0	0.30	239.58	11,569.1	589.8	-362.1	692.1	0.00	0.00	
11,700.0	0.30	239.58	11,669.1	589.5	-362.6	692.1	0.00	0.00	
11,800.0	0.30	239.58	11,769.1	589.3	-363.0	692.1	0.00	0.00	
11,900.0	0.30	239.58	11,869.1	589.0	-363.5	692.1	0.00	0.00	
11,936.9	0.30	239.58	11,906.0	588.9	-363.6	692.1	0.00	0.00	ROLLINS (TVD) - 8513F-25 D36 496 BHL
12,000.0	0.30	239.58	11,969.1	588.7	-363.9	692.1	0.00	0.00	
12,036.9	0.30	239.58	12,006.0	588.6	-364.1	692.1	0.00	0.00	Drillers TD @ 12036.9' MD
12,100.0	0.30	239.58	12,069.1	588.5	-364.4	692.1	0.00	0.00	
12,200.0	0.30	239.58	12,169.1	588.2	-364.8	692.2	0.00	0.00	
12,206.9	0.30	239.58	12,176.0	588.2	-364.8	692.2	0.00	0.00	COZZETTE (TVD)
12,300.0	0.30	239.58	12,269.1	587.9	-365.3	692.2	0.00	0.00	
12,400.0	0.30	239.58	12,369.1	587.7	-365.7	692.2	0.00	0.00	
12,423.9	0.30	239.58	12,393.0	587.6	-365.8	692.2	0.00	0.00	CORCORAN (TVD)
12,500.0	0.30	239.58	12,469.1	587.4	-366.2	692.2	0.00	0.00	
12,525.9	0.30	239.58	12,495.0	587.3	-366.3	692.2	0.00	0.00	LOWER_SEGO (TVD)
12,600.0	0.30	239.58	12,569.1	587.2	-366.6	692.2	0.00	0.00	
12,646.9	0.30	239.58	12,616.0	587.0	-366.8	692.2	0.00	0.00	SEGO (TVD)
12,700.0	0.30	239.58	12,669.1	586.9	-367.1	692.2	0.00	0.00	
12,800.0	0.30	239.58	12,769.1	586.6	-367.5	692.2	0.00	0.00	
12,900.0	0.30	239.58	12,869.1	586.4	-368.0	692.2	0.00	0.00	
13,000.0	0.30	239.58	12,969.1	586.1	-368.4	692.2	0.00	0.00	
13,036.9	0.30	239.58	13,006.0	586.0	-368.6	692.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8513F-25 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KBE @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	KBE @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8513F-25 D36 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
8513F-25 D36 496 BHL	0.00	0.00	11,906.0	588.9	-363.6	1,678,329.61	2,261,362.64	39° 39' 59.46 N	108° 7' 26.97 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
8513F-25 D36 496 TOG	0.00	0.00	8,068.0	598.9	-346.6	1,678,339.11	2,261,379.95	39° 39' 59.56 N	108° 7' 26.75 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,253.8	1,250.0	A_GROOVE (TVD)				
2,422.5	2,414.0	GARDEN_GULCH / L-1 (TVD)				
5,818.1	5,796.0	WASATCH_G (TVD)				
8,058.8	8,028.0	WILLIAMS_FORK (TVD)				
8,098.8	8,068.0	TOG (TVD)				
11,936.9	11,906.0	ROLLINS (TVD)				
12,206.9	12,176.0	COZZETTE (TVD)				
12,423.9	12,393.0	CORCORAN (TVD)				
12,525.9	12,495.0	LOWER_SEGO (TVD)				
12,646.9	12,616.0	SEGO (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200' MD
371.2	371.0	6.6	-3.8	EOB; Inc=5.14°
7,927.6	7,897.0	592.3	-342.8	Start Drop -3.00
8,098.8	8,068.0	598.9	-346.6	EOD; inc=0°
12,036.9	12,006.0	598.7	-346.9	Drillers TD @ 12036.9' MD
13,036.9	13,006.0	588.9	-363.6	Permit TD @ 13036.9' MD