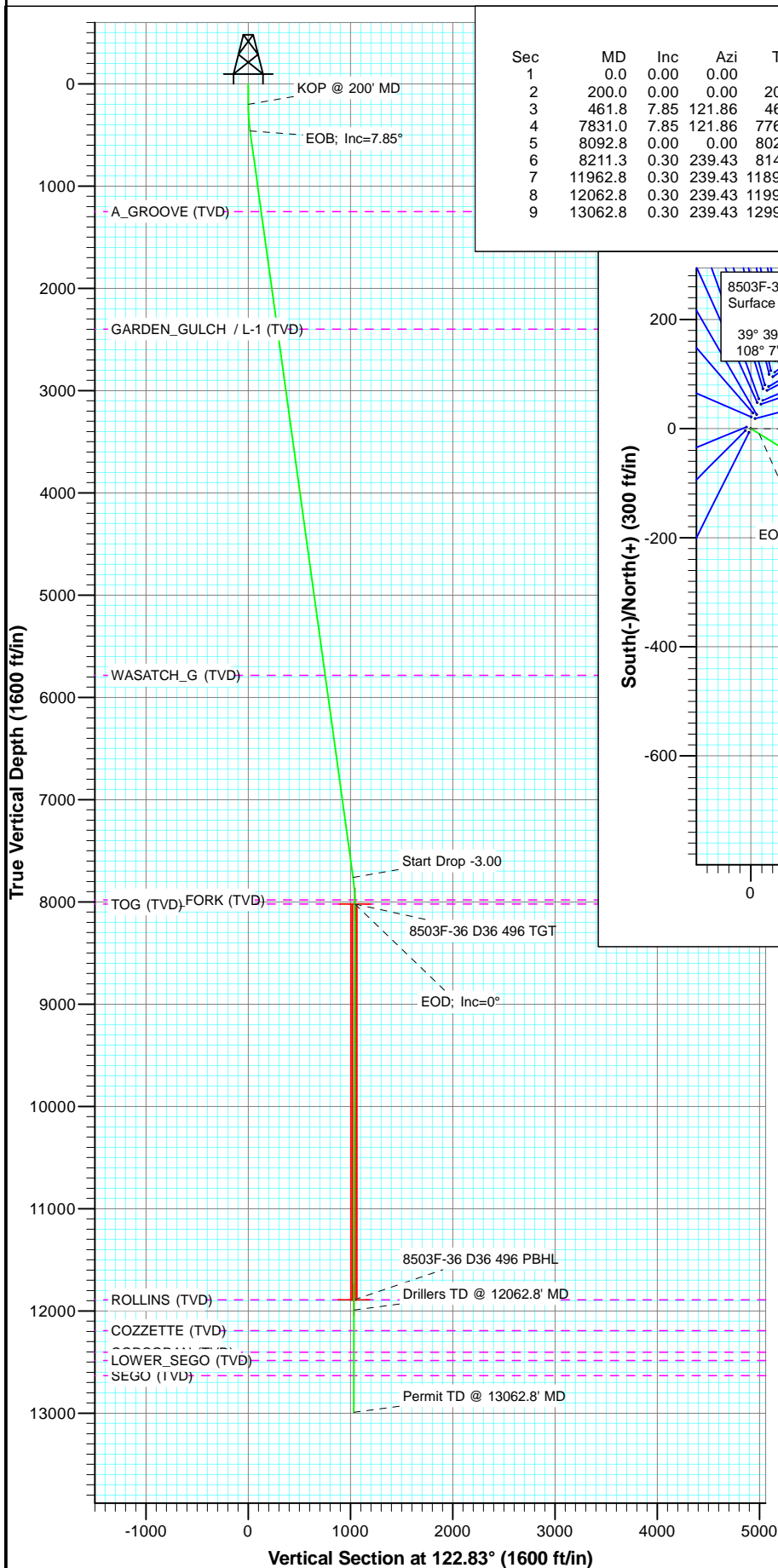


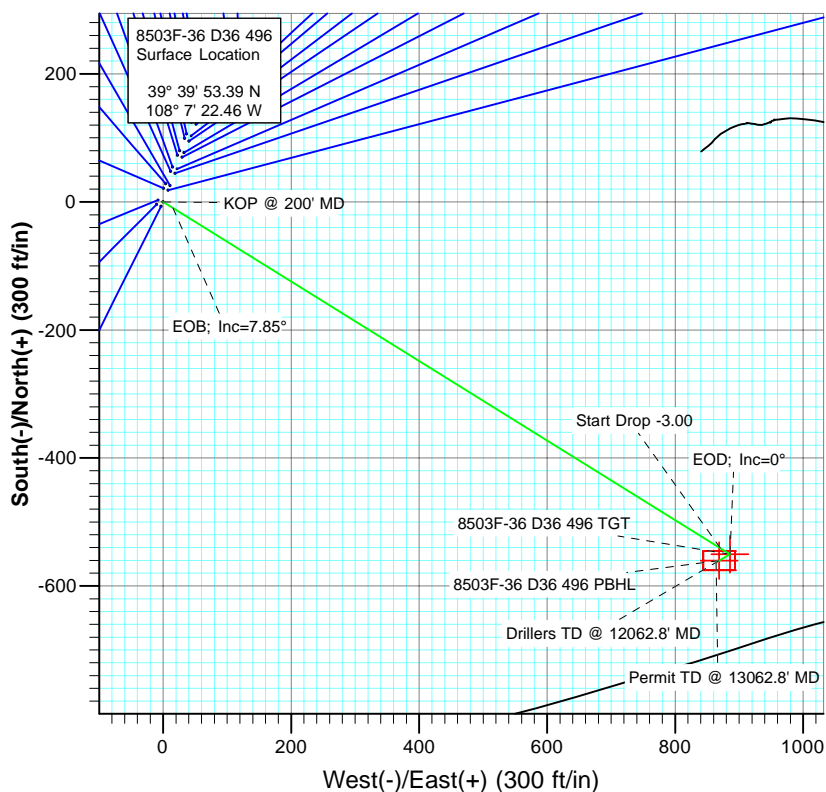


Project: Story Gulch
Site: S36-T4S-R96W (D36 496)
Well: 8503F-36 D36 496
Wellbore: DD
Plan: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	461.8	7.85	121.86	461.0	-9.5	15.2	3.00	121.86	17.9	
4	7831.0	7.85	121.86	7761.0	-541.0	870.6	0.00	0.00	1024.9	
5	8092.8	0.00	0.00	8022.0	-550.5	885.8	3.00	180.00	1042.8	8503F-36 D36 496 TGT
6	8211.3	0.30	239.43	8140.5	-550.7	885.5	0.25	239.43	1042.6	
7	11962.8	0.30	239.43	11892.0	-560.5	868.8	0.00	0.00	1034.0	8503F-36 D36 496 PBHL
8	12062.8	0.30	239.43	11992.0	-560.8	868.4	0.00	0.00	1033.7	
9	13062.8	0.30	239.43	12992.0	-563.4	863.9	0.00	0.00	1031.4	



TVDPath	MDPath	Formation
1250.0	1258.3	A_GROOVE (TVD)
2399.0	2418.2	GARDEN_GULCH / L-1 (TVD)
5785.0	5836.2	WASATCH_G (TVD)
7982.0	8052.8	WILLIAMS_FORK (TVD)
8022.0	8092.8	TOG (TVD)
11892.0	11962.8	ROLLINS (TVD)
12192.0	12262.8	COZZETTE (TVD)
12404.0	12474.8	CORCORAN (TVD)
12486.0	12556.8	LOWER_SEGO (TVD)
12632.0	12702.8	SEGO (TVD)



Azimuths to True North
Magnetic North: 10.44°
Magnetic Field
Strength: 52314.0nT
Dip Angle: 65.86°
Date: 5/19/2011
Model: IGRF2010

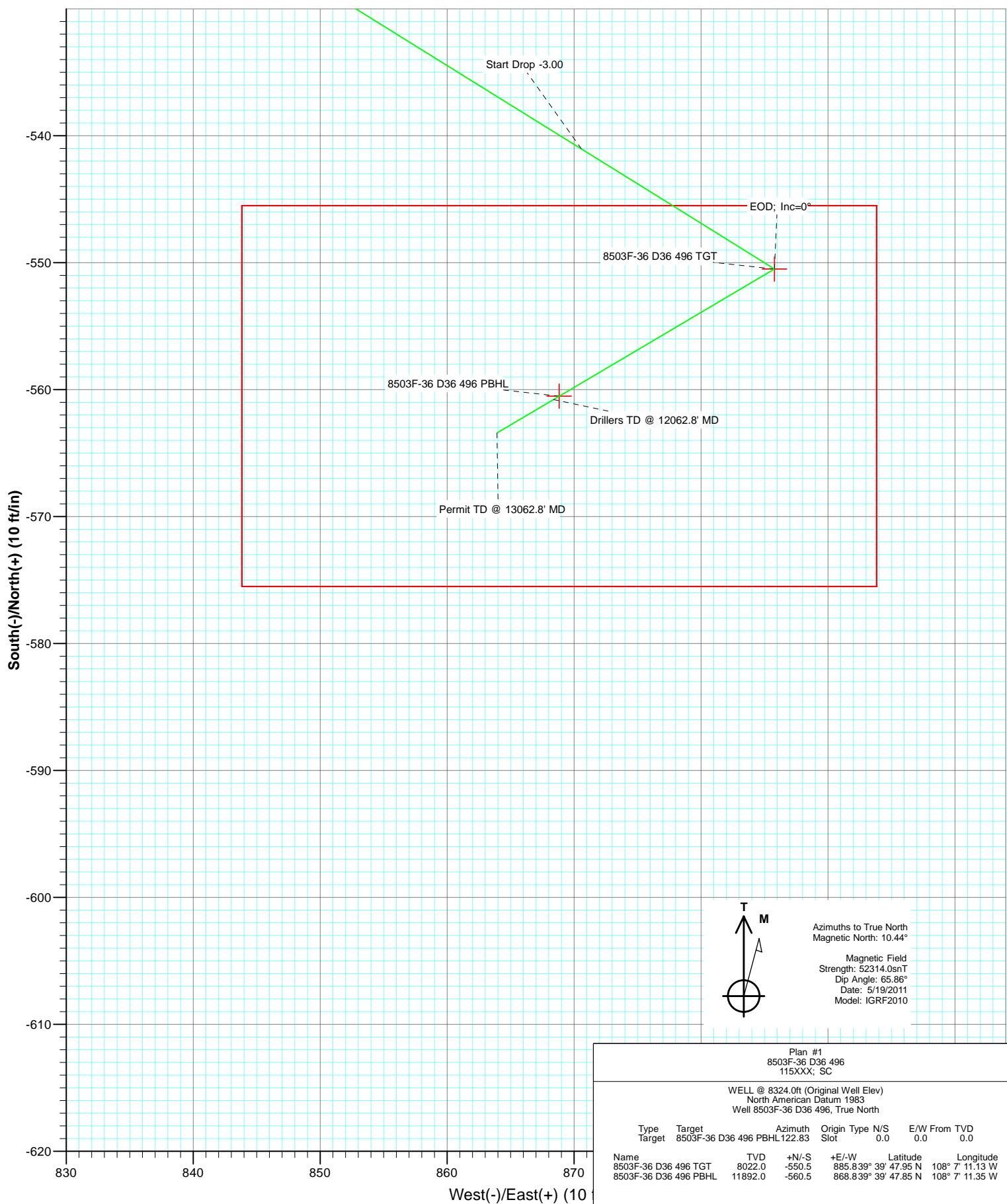
Plan #1
8503F-36 D36 496
115XXX; SC

WELL @ 8324.0ft (Original Well Elev)
North American Datum 1983
Well 8503F-36 D36 496, True North

Type	Target	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
	Target	8503F-36 D36 496 PBHL	122.83	Slot		0.0	0.0		0.0
Name		TVD							
8503F-36 D36 496 TGT		8022.0	+N/-S	+E/-W	Latitude				
8503F-36 D36 496 PBHL		11892.0	-550.5	885.839° 39'	47.95 N	108° 7'	11.13 W		
			-560.5	868.839° 39'	47.85 N	108° 7'	11.35 W		



Project: Story Gulch
 Site: S36-T4S-R96W (D36 496)
 Well: 8503F-36 D36 496
 Wellbore: DD
 Plan: Plan #1



Plan #1									
8503F-36 D36 496									
115XXX; SC									
WELL @ 8324.0ft (Original Well Elev)									
North American Datum 1983									
Well 8503F-36 D36 496, True North									
Type	Target	Target		Azimuth	Origin	Type	N/S	E/W	From
Target	8503F-36	D36 496	PBHL	122.83	Slot		0.0	0.0	TVD
									0.0
Name			TVD	+N/-S	+E/-W	Latitude			Longitude
8503F-36 D36 496 TGT			8022.0	-550.5	885.839° 39'	47.95 N	108° 7'	11.13 W	
8503F-36 D36 496 PBHL			11892.0	-560.5	868.839° 39'	47.85 N	108° 7'	11.35 W	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8503F-36 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8503F-36 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	8503F-36 D36 496					
Well Position	+N/-S	0.0 ft	Northing:	1,677,705.48 ft	Latitude:	39° 39' 53.39 N
	+E/-W	0.0 ft	Easting:	2,261,697.44 ft	Longitude:	108° 7' 22.46 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,302.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/19/2011	10.44	65.86	52,314

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	122.83	

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	
461.8	7.85	121.86	461.0	-9.5	15.2	3.00	3.00	0.00	121.86	
7,831.0	7.85	121.86	7,761.0	-541.0	870.6	0.00	0.00	0.00	0.00	
8,092.8	0.00	0.00	8,022.0	-550.5	885.8	3.00	-3.00	0.00	180.00	8503F-36 D36 496 TC
8,211.3	0.30	239.43	8,140.5	-550.7	885.5	0.25	0.25	-101.74	239.43	
11,962.8	0.30	239.43	11,892.0	-560.5	868.8	0.00	0.00	0.00	0.00	8503F-36 D36 496 PE
12,062.8	0.30	239.43	11,992.0	-560.8	868.4	0.00	0.00	0.00	0.00	
13,062.8	0.30	239.43	12,992.0	-563.4	863.9	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 8503F-36 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8503F-36 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	121.86	300.0	-1.4	2.2	2.6	3.00	3.00	
400.0	6.00	121.86	399.6	-5.5	8.9	10.5	3.00	3.00	
461.8	7.85	121.86	461.0	-9.5	15.2	17.9	3.00	3.00	EOB; Inc=7.85°
500.0	7.85	121.86	498.8	-12.2	19.7	23.1	0.00	0.00	
600.0	7.85	121.86	597.9	-19.4	31.3	36.8	0.00	0.00	
700.0	7.85	121.86	696.9	-26.6	42.9	50.5	0.00	0.00	
800.0	7.85	121.86	796.0	-33.9	54.5	64.1	0.00	0.00	
900.0	7.85	121.86	895.1	-41.1	66.1	77.8	0.00	0.00	
1,000.0	7.85	121.86	994.1	-48.3	77.7	91.5	0.00	0.00	
1,100.0	7.85	121.86	1,093.2	-55.5	89.3	105.1	0.00	0.00	
1,200.0	7.85	121.86	1,192.3	-62.7	100.9	118.8	0.00	0.00	
1,258.3	7.85	121.86	1,250.0	-66.9	107.7	126.7	0.00	0.00	A_GROOVE (TVD)
1,300.0	7.85	121.86	1,291.3	-69.9	112.5	132.4	0.00	0.00	
1,400.0	7.85	121.86	1,390.4	-77.1	124.1	146.1	0.00	0.00	
1,500.0	7.85	121.86	1,489.4	-84.3	135.7	159.8	0.00	0.00	
1,600.0	7.85	121.86	1,588.5	-91.6	147.3	173.4	0.00	0.00	
1,700.0	7.85	121.86	1,687.6	-98.8	158.9	187.1	0.00	0.00	
1,800.0	7.85	121.86	1,786.6	-106.0	170.5	200.8	0.00	0.00	
1,900.0	7.85	121.86	1,885.7	-113.2	182.2	214.4	0.00	0.00	
2,000.0	7.85	121.86	1,984.7	-120.4	193.8	228.1	0.00	0.00	
2,100.0	7.85	121.86	2,083.8	-127.6	205.4	241.8	0.00	0.00	
2,200.0	7.85	121.86	2,182.9	-134.8	217.0	255.4	0.00	0.00	
2,300.0	7.85	121.86	2,281.9	-142.1	228.6	269.1	0.00	0.00	
2,400.0	7.85	121.86	2,381.0	-149.3	240.2	282.8	0.00	0.00	
2,418.2	7.85	121.86	2,399.0	-150.6	242.3	285.2	0.00	0.00	GARDEN_GULCH / L-1 (TVD)
2,500.0	7.85	121.86	2,480.1	-156.5	251.8	296.4	0.00	0.00	
2,600.0	7.85	121.86	2,579.1	-163.7	263.4	310.1	0.00	0.00	
2,700.0	7.85	121.86	2,678.2	-170.9	275.0	323.7	0.00	0.00	
2,800.0	7.85	121.86	2,777.2	-178.1	286.6	337.4	0.00	0.00	
2,900.0	7.85	121.86	2,876.3	-185.3	298.2	351.1	0.00	0.00	
3,000.0	7.85	121.86	2,975.4	-192.6	309.8	364.7	0.00	0.00	
3,100.0	7.85	121.86	3,074.4	-199.8	321.4	378.4	0.00	0.00	
3,200.0	7.85	121.86	3,173.5	-207.0	333.0	392.1	0.00	0.00	
3,300.0	7.85	121.86	3,272.6	-214.2	344.7	405.7	0.00	0.00	
3,400.0	7.85	121.86	3,371.6	-221.4	356.3	419.4	0.00	0.00	
3,500.0	7.85	121.86	3,470.7	-228.6	367.9	433.1	0.00	0.00	
3,600.0	7.85	121.86	3,569.7	-235.8	379.5	446.7	0.00	0.00	
3,700.0	7.85	121.86	3,668.8	-243.0	391.1	460.4	0.00	0.00	
3,800.0	7.85	121.86	3,767.9	-250.3	402.7	474.1	0.00	0.00	
3,900.0	7.85	121.86	3,866.9	-257.5	414.3	487.7	0.00	0.00	
4,000.0	7.85	121.86	3,966.0	-264.7	425.9	501.4	0.00	0.00	
4,100.0	7.85	121.86	4,065.0	-271.9	437.5	515.0	0.00	0.00	
4,200.0	7.85	121.86	4,164.1	-279.1	449.1	528.7	0.00	0.00	
4,300.0	7.85	121.86	4,263.2	-286.3	460.7	542.4	0.00	0.00	
4,400.0	7.85	121.86	4,362.2	-293.5	472.3	556.0	0.00	0.00	
4,500.0	7.85	121.86	4,461.3	-300.8	483.9	569.7	0.00	0.00	
4,600.0	7.85	121.86	4,560.4	-308.0	495.6	583.4	0.00	0.00	
4,700.0	7.85	121.86	4,659.4	-315.2	507.2	597.0	0.00	0.00	
4,800.0	7.85	121.86	4,758.5	-322.4	518.8	610.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8503F-36 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8503F-36 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	7.85	121.86	4,857.5	-329.6	530.4	624.4	0.00	0.00	
5,000.0	7.85	121.86	4,956.6	-336.8	542.0	638.0	0.00	0.00	
5,100.0	7.85	121.86	5,055.7	-344.0	553.6	651.7	0.00	0.00	
5,200.0	7.85	121.86	5,154.7	-351.3	565.2	665.4	0.00	0.00	
5,300.0	7.85	121.86	5,253.8	-358.5	576.8	679.0	0.00	0.00	
5,400.0	7.85	121.86	5,352.8	-365.7	588.4	692.7	0.00	0.00	
5,500.0	7.85	121.86	5,451.9	-372.9	600.0	706.3	0.00	0.00	
5,600.0	7.85	121.86	5,551.0	-380.1	611.6	720.0	0.00	0.00	
5,700.0	7.85	121.86	5,650.0	-387.3	623.2	733.7	0.00	0.00	
5,800.0	7.85	121.86	5,749.1	-394.5	634.8	747.3	0.00	0.00	
5,836.2	7.85	121.86	5,785.0	-397.1	639.0	752.3	0.00	0.00	WASATCH_G (TVD)
5,900.0	7.85	121.86	5,848.2	-401.7	646.4	761.0	0.00	0.00	
6,000.0	7.85	121.86	5,947.2	-409.0	658.1	774.7	0.00	0.00	
6,100.0	7.85	121.86	6,046.3	-416.2	669.7	788.3	0.00	0.00	
6,200.0	7.85	121.86	6,145.3	-423.4	681.3	802.0	0.00	0.00	
6,300.0	7.85	121.86	6,244.4	-430.6	692.9	815.7	0.00	0.00	
6,400.0	7.85	121.86	6,343.5	-437.8	704.5	829.3	0.00	0.00	
6,500.0	7.85	121.86	6,442.5	-445.0	716.1	843.0	0.00	0.00	
6,600.0	7.85	121.86	6,541.6	-452.2	727.7	856.7	0.00	0.00	
6,700.0	7.85	121.86	6,640.7	-459.5	739.3	870.3	0.00	0.00	
6,800.0	7.85	121.86	6,739.7	-466.7	750.9	884.0	0.00	0.00	
6,900.0	7.85	121.86	6,838.8	-473.9	762.5	897.6	0.00	0.00	
7,000.0	7.85	121.86	6,937.8	-481.1	774.1	911.3	0.00	0.00	
7,100.0	7.85	121.86	7,036.9	-488.3	785.7	925.0	0.00	0.00	
7,200.0	7.85	121.86	7,136.0	-495.5	797.3	938.6	0.00	0.00	
7,300.0	7.85	121.86	7,235.0	-502.7	809.0	952.3	0.00	0.00	
7,400.0	7.85	121.86	7,334.1	-510.0	820.6	966.0	0.00	0.00	
7,500.0	7.85	121.86	7,433.1	-517.2	832.2	979.6	0.00	0.00	
7,600.0	7.85	121.86	7,532.2	-524.4	843.8	993.3	0.00	0.00	
7,700.0	7.85	121.86	7,631.3	-531.6	855.4	1,007.0	0.00	0.00	
7,800.0	7.85	121.86	7,730.3	-538.8	867.0	1,020.6	0.00	0.00	
7,831.0	7.85	121.86	7,761.0	-541.0	870.6	1,024.9	0.00	0.00	Start Drop -3.00
7,900.0	5.78	121.86	7,829.5	-545.4	877.5	1,033.1	3.00	-3.00	
8,000.0	2.78	121.86	7,929.3	-549.3	883.9	1,040.5	3.00	-3.00	
8,052.8	1.20	121.86	7,982.0	-550.3	885.4	1,042.4	3.00	-3.00	WILLIAMS_FORK (TVD)
8,092.8	0.00	0.00	8,022.0	-550.5	885.8	1,042.8	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - 8503F-36 D36 496
8,100.0	0.02	239.43	8,029.2	-550.5	885.8	1,042.8	0.25	0.25	
8,200.0	0.27	239.43	8,129.2	-550.6	885.6	1,042.7	0.25	0.25	
8,211.3	0.30	239.43	8,140.5	-550.7	885.5	1,042.6	0.25	0.25	
8,300.0	0.30	239.43	8,229.2	-550.9	885.1	1,042.4	0.00	0.00	
8,400.0	0.30	239.43	8,329.2	-551.1	884.7	1,042.2	0.00	0.00	
8,500.0	0.30	239.43	8,429.2	-551.4	884.3	1,042.0	0.00	0.00	
8,600.0	0.30	239.43	8,529.2	-551.7	883.8	1,041.7	0.00	0.00	
8,700.0	0.30	239.43	8,629.2	-551.9	883.4	1,041.5	0.00	0.00	
8,800.0	0.30	239.43	8,729.2	-552.2	882.9	1,041.3	0.00	0.00	
8,900.0	0.30	239.43	8,829.2	-552.5	882.5	1,041.0	0.00	0.00	
9,000.0	0.30	239.43	8,929.2	-552.7	882.0	1,040.8	0.00	0.00	
9,100.0	0.30	239.43	9,029.2	-553.0	881.6	1,040.6	0.00	0.00	
9,200.0	0.30	239.43	9,129.2	-553.3	881.1	1,040.3	0.00	0.00	
9,300.0	0.30	239.43	9,229.2	-553.5	880.7	1,040.1	0.00	0.00	
9,400.0	0.30	239.43	9,329.2	-553.8	880.2	1,039.9	0.00	0.00	
9,500.0	0.30	239.43	9,429.2	-554.0	879.8	1,039.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8503F-36 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8503F-36 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	239.43	9,529.2	-554.3	879.4	1,039.4	0.00	0.00	
9,700.0	0.30	239.43	9,629.2	-554.6	878.9	1,039.2	0.00	0.00	
9,800.0	0.30	239.43	9,729.2	-554.8	878.5	1,039.0	0.00	0.00	
9,900.0	0.30	239.43	9,829.2	-555.1	878.0	1,038.7	0.00	0.00	
10,000.0	0.30	239.43	9,929.2	-555.4	877.6	1,038.5	0.00	0.00	
10,100.0	0.30	239.43	10,029.2	-555.6	877.1	1,038.3	0.00	0.00	
10,200.0	0.30	239.43	10,129.2	-555.9	876.7	1,038.0	0.00	0.00	
10,300.0	0.30	239.43	10,229.2	-556.1	876.2	1,037.8	0.00	0.00	
10,400.0	0.30	239.43	10,329.2	-556.4	875.8	1,037.6	0.00	0.00	
10,500.0	0.30	239.43	10,429.2	-556.7	875.3	1,037.3	0.00	0.00	
10,600.0	0.30	239.43	10,529.2	-556.9	874.9	1,037.1	0.00	0.00	
10,700.0	0.30	239.43	10,629.2	-557.2	874.5	1,036.9	0.00	0.00	
10,800.0	0.30	239.43	10,729.2	-557.5	874.0	1,036.6	0.00	0.00	
10,900.0	0.30	239.43	10,829.2	-557.7	873.6	1,036.4	0.00	0.00	
11,000.0	0.30	239.43	10,929.2	-558.0	873.1	1,036.2	0.00	0.00	
11,100.0	0.30	239.43	11,029.2	-558.2	872.7	1,035.9	0.00	0.00	
11,200.0	0.30	239.43	11,129.2	-558.5	872.2	1,035.7	0.00	0.00	
11,300.0	0.30	239.43	11,229.2	-558.8	871.8	1,035.5	0.00	0.00	
11,400.0	0.30	239.43	11,329.2	-559.0	871.3	1,035.3	0.00	0.00	
11,500.0	0.30	239.43	11,429.2	-559.3	870.9	1,035.0	0.00	0.00	
11,600.0	0.30	239.43	11,529.2	-559.6	870.4	1,034.8	0.00	0.00	
11,700.0	0.30	239.43	11,629.2	-559.8	870.0	1,034.6	0.00	0.00	
11,800.0	0.30	239.43	11,729.2	-560.1	869.6	1,034.3	0.00	0.00	
11,900.0	0.30	239.43	11,829.2	-560.4	869.1	1,034.1	0.00	0.00	
11,962.8	0.30	239.43	11,892.0	-560.5	868.8	1,034.0	0.00	0.00	ROLLINS (TVD) - 8503F-36 D36 496 PBHL
12,000.0	0.30	239.43	11,929.2	-560.6	868.7	1,033.9	0.00	0.00	
12,062.8	0.30	239.43	11,992.0	-560.8	868.4	1,033.7	0.00	0.00	Drillers TD @ 12062.8' MD
12,100.0	0.30	239.43	12,029.2	-560.9	868.2	1,033.6	0.00	0.00	
12,200.0	0.30	239.43	12,129.2	-561.1	867.8	1,033.4	0.00	0.00	
12,262.8	0.30	239.43	12,192.0	-561.3	867.5	1,033.3	0.00	0.00	COZZETTE (TVD)
12,300.0	0.30	239.43	12,229.2	-561.4	867.3	1,033.2	0.00	0.00	
12,400.0	0.30	239.43	12,329.2	-561.7	866.9	1,032.9	0.00	0.00	
12,474.8	0.30	239.43	12,404.0	-561.9	866.6	1,032.8	0.00	0.00	CORCORAN (TVD)
12,500.0	0.30	239.43	12,429.2	-561.9	866.4	1,032.7	0.00	0.00	
12,556.8	0.30	239.43	12,486.0	-562.1	866.2	1,032.6	0.00	0.00	LOWER_SEGO (TVD)
12,600.0	0.30	239.43	12,529.2	-562.2	866.0	1,032.5	0.00	0.00	
12,700.0	0.30	239.43	12,629.2	-562.5	865.6	1,032.2	0.00	0.00	
12,702.8	0.30	239.43	12,632.0	-562.5	865.5	1,032.2	0.00	0.00	SEGO (TVD)
12,800.0	0.30	239.43	12,729.2	-562.7	865.1	1,032.0	0.00	0.00	
12,900.0	0.30	239.43	12,829.2	-563.0	864.7	1,031.8	0.00	0.00	
13,000.0	0.30	239.43	12,929.2	-563.2	864.2	1,031.5	0.00	0.00	
13,062.8	0.30	239.43	12,992.0	-563.4	863.9	1,031.4	0.00	0.00	Permit TD @ 13062.8' MD

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well 8503F-36 D36 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S36-T4S-R96W (D36 496)	North Reference:	True
Well:	8503F-36 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)		
8503F-36 D36 496 PBH - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	11,892.0	-560.5	868.8	1,677,120.11	2,262,549.73	39° 39' 47.85 N	108° 7' 11.35 W
8503F-36 D36 496 TGT - plan hits target center - Point	0.00	0.00	8,022.0	-550.5	885.8	1,677,129.64	2,262,566.98	39° 39' 47.95 N	108° 7' 11.13 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,258.3	1,250.0	A_GROOVE (TVD)				
2,418.2	2,399.0	GARDEN_GULCH / L-1 (TVD)				
5,836.2	5,785.0	WASATCH_G (TVD)				
8,052.8	7,982.0	WILLIAMS_FORK (TVD)				
8,092.8	8,022.0	TOG (TVD)				
11,962.8	11,892.0	ROLLINS (TVD)				
12,262.8	12,192.0	COZZETTE (TVD)				
12,474.8	12,404.0	CORCORAN (TVD)				
12,556.8	12,486.0	LOWER_SEGO (TVD)				
12,702.8	12,632.0	SEGO (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
200.0	200.0	0.0	0.0	KOP @ 200' MD	
461.8	461.0	-9.5	15.2	EOB; Inc=7.85°	
7,831.0	7,761.0	-541.0	870.6	Start Drop -3.00	
8,092.8	8,022.0	-550.5	885.8	EOD; Inc=0°	
12,062.8	11,992.0	-550.7	885.5	Drillers TD @ 12062.8' MD	
13,062.8	12,992.0	-560.5	868.8	Permit TD @ 13062.8' MD	