



Project: Cedar Bench
 Site: A28 6100
 Well: DH08-29 A28 6100
 Wellbore: Hz
 Design: Plan #2



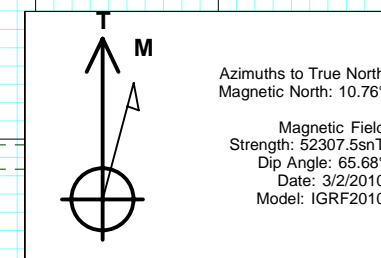
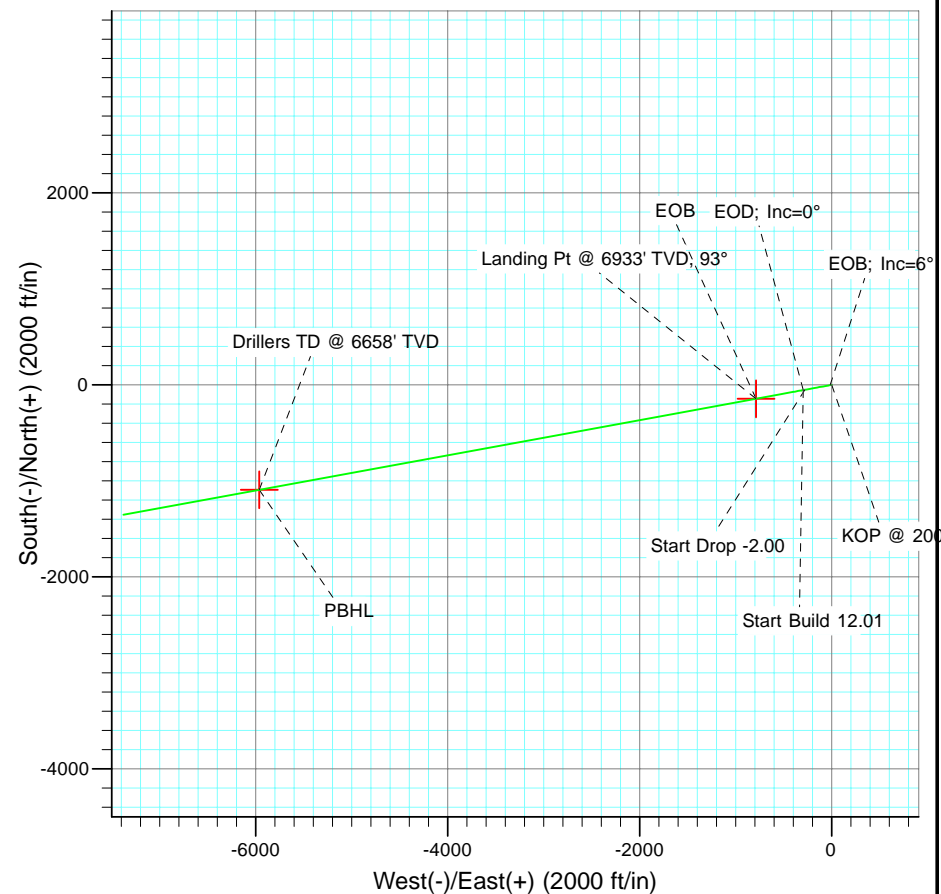
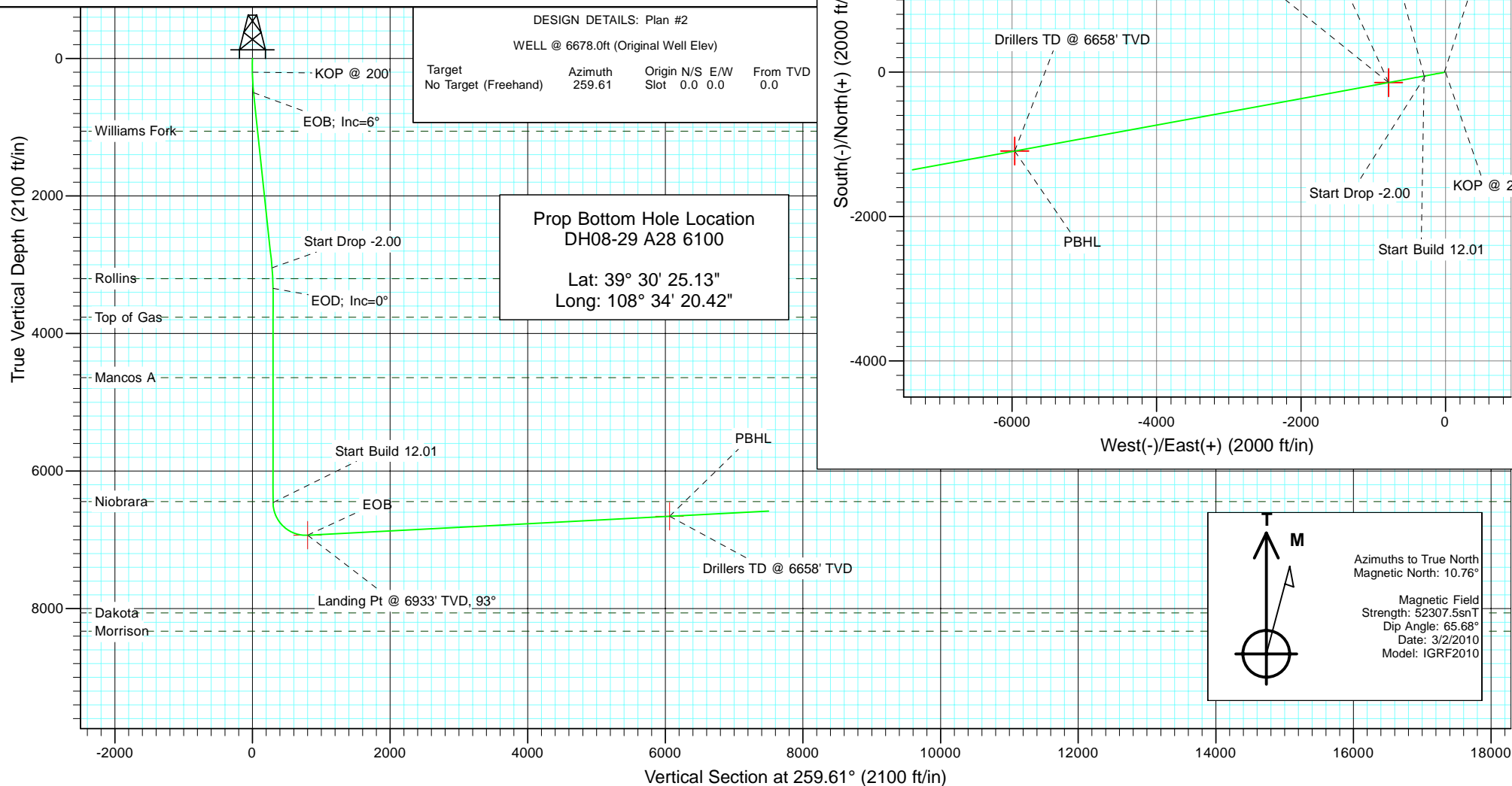
SECTION DETAILS

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	500.0	6.00	259.61	499.5	-2.8	-15.4	2.00	259.61	15.7	
4	3060.0	6.00	259.61	3045.4	-51.1	-278.6	0.00	0.00	283.3	
5	3360.0	0.00	0.00	3344.9	-53.9	-294.1	2.00	180.00	299.0	
6	6472.4	0.00	0.00	6457.3	-53.9	-294.1	0.00	0.00	299.0	
7	7246.9	93.01	259.58	6933.7	-144.8	-787.9	12.01	259.58	801.1	
8	7513.5	93.01	259.58	6919.7	-192.9	-1049.8	0.00	0.00	1067.4	
9	7513.8	93.00	259.61	6919.7	-193.0	-1050.1	12.00	111.81	1067.7	
10	12513.8	93.00	259.61	6658.0	-1093.5	-5961.4	0.00	0.00	6060.8	PBHL
11	13955.1	93.00	259.61	6582.6	-1353.0	-7377.1	0.00	0.00	7500.1	

DESIGN DETAILS: Plan #2

WELL @ 6678.0ft (Original Well Elev)

Target	Azimuth	Origin N/S	E/W	From TVD
No Target (Freehand)	259.61	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 DH08-29 A28 6100
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6678.0ft (Original Well Elev)
Project:	Cedar Bench	MD Reference:	WELL @ 6678.0ft (Original Well Elev)
Site:	A28 6100	North Reference:	True
Well:	DH08-29 A28 6100	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Project	Cedar Bench		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		A28 6100			
Site Position:		Northing:	1,079,182.87 ft	Latitude:	39° 30' 36.16 N
From:	Lat/Long	Easting:	2,139,237.70 ft	Longitude:	108° 33' 4.20 W
Position Uncertainty:	0.0 ft	Slot Radius:	0.000 in	Grid Convergence:	-1.97 °

Well	DH08-29 A28 6100					
Well Position	+N/-S	0.0 ft	Northing:	1,079,161.92 ft	Latitude:	39° 30' 35.94 N
	+E/-W	0.0 ft	Easting:	2,139,224.02 ft	Longitude:	108° 33' 4.37 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,656.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/2/2010	10.76	65.68	52,308

Design	Plan #2			
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	259.61

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	
500.0	6.00	259.61	499.5	-2.8	-15.4	2.00	2.00	0.00	259.61	
3,060.0	6.00	259.61	3,045.4	-51.1	-278.6	0.00	0.00	0.00	0.00	
3,360.0	0.00	0.00	3,344.9	-53.9	-294.1	2.00	-2.00	0.00	180.00	
6,472.4	0.00	0.00	6,457.3	-53.9	-294.1	0.00	0.00	0.00	0.00	
7,246.9	93.01	259.58	6,933.7	-144.8	-787.9	12.01	12.01	0.00	259.58	
7,513.5	93.01	259.58	6,919.7	-192.9	-1,049.8	0.00	0.00	0.00	0.00	
7,513.8	93.00	259.61	6,919.7	-193.0	-1,050.1	12.00	-4.46	11.16	111.81	
12,513.8	93.00	259.61	6,658.0	-1,093.5	-5,961.4	0.00	0.00	0.00	0.00	PBHL
13,955.1	93.00	259.61	6,582.6	-1,353.0	-7,377.1	0.00	0.00	0.00	0.00	

Cathedral Energy Services

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6678.0ft (Original Well Elev)
Project:	Cedar Bench	MD Reference:	WELL @ 6678.0ft (Original Well Elev)
Site:	A28 6100	North Reference:	True
Well:	DH08-29 A28 6100	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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'
300.0	2.00	259.61	300.0	-0.3	-1.7	1.7	2.00	2.00	
400.0	4.00	259.61	399.8	-1.3	-6.9	7.0	2.00	2.00	
500.0	6.00	259.61	499.5	-2.8	-15.4	15.7	2.00	2.00	EOB; Inc=6°
600.0	6.00	259.61	598.9	-4.7	-25.7	26.1	0.00	0.00	
700.0	6.00	259.61	698.4	-6.6	-36.0	36.6	0.00	0.00	
800.0	6.00	259.61	797.8	-8.5	-46.3	47.1	0.00	0.00	
900.0	6.00	259.61	897.3	-10.4	-56.6	57.5	0.00	0.00	
1,000.0	6.00	259.61	996.7	-12.3	-66.8	68.0	0.00	0.00	
1,061.6	6.00	259.61	1,058.0	-13.4	-73.2	74.4	0.00	0.00	Williams Fork
1,100.0	6.00	259.61	1,096.2	-14.1	-77.1	78.4	0.00	0.00	
1,200.0	6.00	259.61	1,195.6	-16.0	-87.4	88.9	0.00	0.00	
1,300.0	6.00	259.61	1,295.1	-17.9	-97.7	99.3	0.00	0.00	
1,400.0	6.00	259.61	1,394.5	-19.8	-108.0	109.8	0.00	0.00	
1,500.0	6.00	259.61	1,494.0	-21.7	-118.3	120.2	0.00	0.00	
1,600.0	6.00	259.61	1,593.4	-23.6	-128.5	130.7	0.00	0.00	
1,700.0	6.00	259.61	1,692.9	-25.5	-138.8	141.1	0.00	0.00	
1,800.0	6.00	259.61	1,792.3	-27.3	-149.1	151.6	0.00	0.00	
1,900.0	6.00	259.61	1,891.8	-29.2	-159.4	162.0	0.00	0.00	
2,000.0	6.00	259.61	1,991.2	-31.1	-169.7	172.5	0.00	0.00	
2,100.0	6.00	259.61	2,090.7	-33.0	-179.9	182.9	0.00	0.00	
2,200.0	6.00	259.61	2,190.1	-34.9	-190.2	193.4	0.00	0.00	
2,300.0	6.00	259.61	2,289.6	-36.8	-200.5	203.8	0.00	0.00	
2,400.0	6.00	259.61	2,389.0	-38.6	-210.8	214.3	0.00	0.00	
2,500.0	6.00	259.61	2,488.5	-40.5	-221.1	224.8	0.00	0.00	
2,600.0	6.00	259.61	2,587.9	-42.4	-231.3	235.2	0.00	0.00	
2,700.0	6.00	259.61	2,687.4	-44.3	-241.6	245.7	0.00	0.00	
2,800.0	6.00	259.61	2,786.9	-46.2	-251.9	256.1	0.00	0.00	
2,900.0	6.00	259.61	2,886.3	-48.1	-262.2	266.6	0.00	0.00	
3,000.0	6.00	259.61	2,985.8	-50.0	-272.5	277.0	0.00	0.00	
3,060.0	6.00	259.61	3,045.4	-51.1	-278.6	283.3	0.00	0.00	Start Drop -2.00
3,100.0	5.20	259.61	3,085.2	-51.8	-282.5	287.2	2.00	-2.00	
3,200.0	3.20	259.61	3,185.0	-53.1	-289.7	294.5	2.00	-2.00	
3,218.1	2.84	259.61	3,203.0	-53.3	-290.6	295.5	2.00	-2.00	Rollins
3,300.0	1.20	259.61	3,284.9	-53.8	-293.5	298.4	2.00	-2.00	
3,360.0	0.00	0.00	3,344.9	-53.9	-294.1	299.0	2.00	-2.00	EOD; Inc=0°
3,400.0	0.00	0.00	3,384.9	-53.9	-294.1	299.0	0.00	0.00	
3,500.0	0.00	0.00	3,484.9	-53.9	-294.1	299.0	0.00	0.00	
3,600.0	0.00	0.00	3,584.9	-53.9	-294.1	299.0	0.00	0.00	
3,700.0	0.00	0.00	3,684.9	-53.9	-294.1	299.0	0.00	0.00	
3,778.1	0.00	0.00	3,763.0	-53.9	-294.1	299.0	0.00	0.00	Top of Gas
3,800.0	0.00	0.00	3,784.9	-53.9	-294.1	299.0	0.00	0.00	
3,900.0	0.00	0.00	3,884.9	-53.9	-294.1	299.0	0.00	0.00	
4,000.0	0.00	0.00	3,984.9	-53.9	-294.1	299.0	0.00	0.00	
4,100.0	0.00	0.00	4,084.9	-53.9	-294.1	299.0	0.00	0.00	
4,200.0	0.00	0.00	4,184.9	-53.9	-294.1	299.0	0.00	0.00	
4,300.0	0.00	0.00	4,284.9	-53.9	-294.1	299.0	0.00	0.00	
4,400.0	0.00	0.00	4,384.9	-53.9	-294.1	299.0	0.00	0.00	
4,500.0	0.00	0.00	4,484.9	-53.9	-294.1	299.0	0.00	0.00	
4,600.0	0.00	0.00	4,584.9	-53.9	-294.1	299.0	0.00	0.00	

Cathedral Energy Services

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Site:	A28 6100	North Reference:	True
Well:	DH08-29 A28 6100	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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
4,656.1	0.00	0.00	4,641.0	-53.9	-294.1	299.0	0.00	0.00	Mancos A
4,700.0	0.00	0.00	4,684.9	-53.9	-294.1	299.0	0.00	0.00	
4,800.0	0.00	0.00	4,784.9	-53.9	-294.1	299.0	0.00	0.00	
4,900.0	0.00	0.00	4,884.9	-53.9	-294.1	299.0	0.00	0.00	
5,000.0	0.00	0.00	4,984.9	-53.9	-294.1	299.0	0.00	0.00	
5,100.0	0.00	0.00	5,084.9	-53.9	-294.1	299.0	0.00	0.00	
5,200.0	0.00	0.00	5,184.9	-53.9	-294.1	299.0	0.00	0.00	
5,300.0	0.00	0.00	5,284.9	-53.9	-294.1	299.0	0.00	0.00	
5,400.0	0.00	0.00	5,384.9	-53.9	-294.1	299.0	0.00	0.00	
5,500.0	0.00	0.00	5,484.9	-53.9	-294.1	299.0	0.00	0.00	
5,600.0	0.00	0.00	5,584.9	-53.9	-294.1	299.0	0.00	0.00	Niobrara Start Build 12.01
5,700.0	0.00	0.00	5,684.9	-53.9	-294.1	299.0	0.00	0.00	
5,800.0	0.00	0.00	5,784.9	-53.9	-294.1	299.0	0.00	0.00	
5,900.0	0.00	0.00	5,884.9	-53.9	-294.1	299.0	0.00	0.00	
6,000.0	0.00	0.00	5,984.9	-53.9	-294.1	299.0	0.00	0.00	
6,100.0	0.00	0.00	6,084.9	-53.9	-294.1	299.0	0.00	0.00	
6,200.0	0.00	0.00	6,184.9	-53.9	-294.1	299.0	0.00	0.00	
6,300.0	0.00	0.00	6,284.9	-53.9	-294.1	299.0	0.00	0.00	
6,400.0	0.00	0.00	6,384.9	-53.9	-294.1	299.0	0.00	0.00	
6,458.1	0.00	0.00	6,443.0	-53.9	-294.1	299.0	0.00	0.00	
6,472.4	0.00	0.00	6,457.3	-53.9	-294.1	299.0	0.00	0.00	Landing Pt @ 6933' TVD, 93°
6,500.0	3.31	259.58	6,484.9	-54.1	-294.9	299.8	12.01	12.01	
6,600.0	15.32	259.58	6,583.4	-57.0	-310.8	315.9	12.01	12.01	
6,700.0	27.33	259.58	6,676.3	-63.6	-346.5	352.2	12.01	12.01	
6,800.0	39.34	259.58	6,759.7	-73.5	-400.4	407.1	12.01	12.01	
6,900.0	51.35	259.58	6,829.9	-86.3	-470.2	478.1	12.01	12.01	
7,000.0	63.36	259.58	6,883.7	-101.5	-552.9	562.2	12.01	12.01	
7,100.0	75.37	259.58	6,918.9	-118.4	-644.8	655.6	12.01	12.01	
7,200.0	87.38	259.58	6,933.9	-136.3	-741.8	754.3	12.01	12.01	
7,246.9	93.01	259.58	6,933.7	-144.8	-787.9	801.1	12.01	12.01	
7,300.0	93.01	259.58	6,930.9	-154.3	-840.1	854.2	0.00	0.00	EOB
7,400.0	93.01	259.58	6,925.7	-172.4	-938.3	954.0	0.00	0.00	
7,500.0	93.01	259.58	6,920.4	-190.5	-1,036.5	1,053.9	0.00	0.00	
7,513.5	93.01	259.58	6,919.7	-192.9	-1,049.8	1,067.4	0.00	0.00	
7,513.8	93.00	259.61	6,919.7	-193.0	-1,050.1	1,067.7	12.01	-4.46	
7,600.0	93.00	259.61	6,915.2	-208.5	-1,134.8	1,153.8	0.00	0.00	
7,700.0	93.00	259.61	6,909.9	-226.5	-1,233.0	1,253.6	0.00	0.00	
7,800.0	93.00	259.61	6,904.7	-244.5	-1,331.2	1,353.5	0.00	0.00	
7,900.0	93.00	259.61	6,899.5	-262.5	-1,429.4	1,453.3	0.00	0.00	
8,000.0	93.00	259.61	6,894.2	-280.5	-1,527.7	1,553.2	0.00	0.00	
8,100.0	93.00	259.61	6,889.0	-298.5	-1,625.9	1,653.1	0.00	0.00	
8,200.0	93.00	259.61	6,883.8	-316.6	-1,724.1	1,752.9	0.00	0.00	
8,300.0	93.00	259.61	6,878.5	-334.6	-1,822.3	1,852.8	0.00	0.00	
8,400.0	93.00	259.61	6,873.3	-352.6	-1,920.6	1,952.7	0.00	0.00	
8,500.0	93.00	259.61	6,868.1	-370.6	-2,018.8	2,052.5	0.00	0.00	
8,600.0	93.00	259.61	6,862.8	-388.6	-2,117.0	2,152.4	0.00	0.00	
8,700.0	93.00	259.61	6,857.6	-406.6	-2,215.2	2,252.2	0.00	0.00	
8,800.0	93.00	259.61	6,852.4	-424.6	-2,313.5	2,352.1	0.00	0.00	
8,900.0	93.00	259.61	6,847.1	-442.6	-2,411.7	2,452.0	0.00	0.00	
9,000.0	93.00	259.61	6,841.9	-460.6	-2,509.9	2,551.8	0.00	0.00	
9,100.0	93.00	259.61	6,836.7	-478.6	-2,608.1	2,651.7	0.00	0.00	
9,200.0	93.00	259.61	6,831.4	-496.7	-2,706.4	2,751.6	0.00	0.00	

Cathedral Energy Services

Planning Report

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Site:	A28 6100	North Reference:	True
Well:	DH08-29 A28 6100	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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
9,300.0	93.00	259.61	6,826.2	-514.7	-2,804.6	2,851.4	0.00	0.00	
9,400.0	93.00	259.61	6,821.0	-532.7	-2,902.8	2,951.3	0.00	0.00	
9,500.0	93.00	259.61	6,815.7	-550.7	-3,001.0	3,051.1	0.00	0.00	
9,600.0	93.00	259.61	6,810.5	-568.7	-3,099.3	3,151.0	0.00	0.00	
9,700.0	93.00	259.61	6,805.3	-586.7	-3,197.5	3,250.9	0.00	0.00	
9,800.0	93.00	259.61	6,800.0	-604.7	-3,295.7	3,350.7	0.00	0.00	
9,900.0	93.00	259.61	6,794.8	-622.7	-3,393.9	3,450.6	0.00	0.00	
10,000.0	93.00	259.61	6,789.6	-640.7	-3,492.2	3,550.5	0.00	0.00	
10,100.0	93.00	259.61	6,784.3	-658.7	-3,590.4	3,650.3	0.00	0.00	
10,200.0	93.00	259.61	6,779.1	-676.8	-3,688.6	3,750.2	0.00	0.00	
10,300.0	93.00	259.61	6,773.9	-694.8	-3,786.8	3,850.1	0.00	0.00	
10,400.0	93.00	259.61	6,768.6	-712.8	-3,885.1	3,949.9	0.00	0.00	
10,500.0	93.00	259.61	6,763.4	-730.8	-3,983.3	4,049.8	0.00	0.00	
10,600.0	93.00	259.61	6,758.2	-748.8	-4,081.5	4,149.6	0.00	0.00	
10,700.0	93.00	259.61	6,752.9	-766.8	-4,179.7	4,249.5	0.00	0.00	
10,800.0	93.00	259.61	6,747.7	-784.8	-4,278.0	4,349.4	0.00	0.00	
10,900.0	93.00	259.61	6,742.5	-802.8	-4,376.2	4,449.2	0.00	0.00	
11,000.0	93.00	259.61	6,737.2	-820.8	-4,474.4	4,549.1	0.00	0.00	
11,100.0	93.00	259.61	6,732.0	-838.8	-4,572.7	4,649.0	0.00	0.00	
11,200.0	93.00	259.61	6,726.8	-856.9	-4,670.9	4,748.8	0.00	0.00	
11,300.0	93.00	259.61	6,721.5	-874.9	-4,769.1	4,848.7	0.00	0.00	
11,400.0	93.00	259.61	6,716.3	-892.9	-4,867.3	4,948.5	0.00	0.00	
11,500.0	93.00	259.61	6,711.1	-910.9	-4,965.6	5,048.4	0.00	0.00	
11,600.0	93.00	259.61	6,705.8	-928.9	-5,063.8	5,148.3	0.00	0.00	
11,700.0	93.00	259.61	6,700.6	-946.9	-5,162.0	5,248.1	0.00	0.00	
11,800.0	93.00	259.61	6,695.4	-964.9	-5,260.2	5,348.0	0.00	0.00	
11,900.0	93.00	259.61	6,690.1	-982.9	-5,358.5	5,447.9	0.00	0.00	
12,000.0	93.00	259.61	6,684.9	-1,000.9	-5,456.7	5,547.7	0.00	0.00	
12,100.0	93.00	259.61	6,679.7	-1,018.9	-5,554.9	5,647.6	0.00	0.00	
12,200.0	93.00	259.61	6,674.4	-1,037.0	-5,653.1	5,747.4	0.00	0.00	
12,300.0	93.00	259.61	6,669.2	-1,055.0	-5,751.4	5,847.3	0.00	0.00	
12,400.0	93.00	259.61	6,664.0	-1,073.0	-5,849.6	5,947.2	0.00	0.00	
12,500.0	93.00	259.61	6,658.7	-1,091.0	-5,947.8	6,047.0	0.00	0.00	
12,513.8	93.00	259.61	6,658.0	-1,093.5	-5,961.4	6,060.8	0.00	0.00	Drillers TD @ 6658' TVD - PBHL
12,600.0	93.00	259.61	6,653.5	-1,109.0	-6,046.0	6,146.9	0.00	0.00	
12,700.0	93.00	259.61	6,648.3	-1,127.0	-6,144.3	6,246.8	0.00	0.00	
12,800.0	93.00	259.61	6,643.0	-1,145.0	-6,242.5	6,346.6	0.00	0.00	
12,900.0	93.00	259.61	6,637.8	-1,163.0	-6,340.7	6,446.5	0.00	0.00	
13,000.0	93.00	259.61	6,632.6	-1,181.0	-6,438.9	6,546.4	0.00	0.00	
13,100.0	93.00	259.61	6,627.3	-1,199.0	-6,537.2	6,646.2	0.00	0.00	
13,200.0	93.00	259.61	6,622.1	-1,217.1	-6,635.4	6,746.1	0.00	0.00	
13,300.0	93.00	259.61	6,616.9	-1,235.1	-6,733.6	6,845.9	0.00	0.00	
13,400.0	93.00	259.61	6,611.6	-1,253.1	-6,831.8	6,945.8	0.00	0.00	
13,500.0	93.00	259.61	6,606.4	-1,271.1	-6,930.1	7,045.7	0.00	0.00	
13,600.0	93.00	259.61	6,601.2	-1,289.1	-7,028.3	7,145.5	0.00	0.00	
13,700.0	93.00	259.61	6,595.9	-1,307.1	-7,126.5	7,245.4	0.00	0.00	
13,800.0	93.00	259.61	6,590.7	-1,325.1	-7,224.7	7,345.3	0.00	0.00	
13,900.0	93.00	259.61	6,585.5	-1,343.1	-7,323.0	7,445.1	0.00	0.00	
13,955.1	93.00	259.61	6,582.6	-1,353.0	-7,377.1	7,500.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Well DH08-29 A28 6100
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6678.0ft (Original Well Elev)
Project:	Cedar Bench	MD Reference:	WELL @ 6678.0ft (Original Well Elev)
Site:	A28 6100	North Reference:	True
Well:	DH08-29 A28 6100	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

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)		
PBHL	0.00	0.00	6,658.0	-1,093.5	-5,961.4	1,078,274.18	2,133,228.57	39° 30' 25.13 N	108° 34' 20.42 W
- plan hits target center									
- Point									
EOB	0.00	0.00	6,928.0	-263.4	-1,037.3	1,078,934.34	2,138,178.28	39° 30' 33.34 N	108° 33' 17.60 W
- plan misses target center by 72.1ft at 7513.5ft MD (6919.7 TVD, -192.9 N, -1049.8 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,061.6	1,058.0	Williams Fork		0.00		
3,218.1	3,203.0	Rollins		0.00		
3,778.1	3,763.0	Top of Gas		0.00		
4,656.1	4,641.0	Mancos A		0.00		
6,458.1	6,443.0	Niobrara		0.00		

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'	
500.0	499.5	-2.8	-15.4	EOB; Inc=6°	
3,060.0	3,045.4	-51.1	-278.6	Start Drop -2.00	
3,360.0	3,344.9	-53.9	-294.1	EOD; Inc=0°	
6,472.4	6,457.3	-53.9	-294.1	Start Build 12.01	
7,246.9	6,933.7	-144.8	-787.9	Landing Pt @ 6933' TVD, 93°	
12,513.8	6,658.0	-193.0	-1,050.1	Drillers TD @ 6658' TVD	
13,955.1	6,582.6	-1,093.5	-5,961.4	Permit TD @ 6582' TVD	