

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

<b>Project</b>	North Piceance		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		H04 596 Pad			
Site Position:		Northing:	1,671,070.85 ft	Latitude:	39° 38' 44.37 N
From:	Lat/Long	Easting:	2,249,607.93 ft	Longitude:	108° 9' 54.50 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	UWF15A-03 H04 596 (was 10D-03)					
Well Position	+N/-S	0.0 ft	Northing:	1,671,144.75 ft	Latitude:	39° 38' 45.11 N
	+E/-W	0.0 ft	Easting:	2,249,641.40 ft	Longitude:	108° 9' 54.10 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,260.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF2010	4/19/2012	10.34	65.81	52,206

<b>Design</b>	Plan #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	117.75

<b>Plan Sections</b>										
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	
500.0	6.00	100.00	499.6	-1.8	10.3	3.00	3.00	0.00	100.00	
1,491.1	35.40	117.73	1,417.1	-147.7	322.4	3.00	2.97	1.79	20.84	
8,132.8	35.40	117.73	6,831.0	-1,938.1	3,727.8	0.00	0.00	0.00	0.00	
9,312.8	0.00	0.00	7,937.3	-2,102.4	4,040.3	3.00	-3.00	0.00	180.00	UWF15A-03 TGT (2)
11,038.5	0.50	239.63	9,663.0	-2,106.2	4,033.8	0.03	0.03	-6.98	239.63	
12,445.5	0.50	239.63	11,070.0	-2,112.4	4,023.3	0.00	0.00	0.00	0.00	UWF15A-03 BHL (2)
13,000.0	0.50	239.63	11,624.4	-2,114.8	4,019.2	0.00	0.00	0.00	0.00	

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<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	3.00	100.00	400.0	-0.5	2.6	2.5	3.00	3.00	
500.0	6.00	100.00	499.6	-1.8	10.3	10.0	3.00	3.00	
600.0	8.87	106.94	598.8	-5.0	22.8	22.5	3.00	2.87	
700.0	11.80	110.48	697.2	-10.8	39.8	40.2	3.00	2.93	
800.0	14.76	112.62	794.5	-19.3	61.1	63.1	3.00	2.96	
900.0	17.73	114.05	890.5	-30.4	86.8	91.0	3.00	2.97	
1,000.0	20.72	115.09	984.9	-44.1	116.7	123.8	3.00	2.98	
1,100.0	23.70	115.87	1,077.4	-60.4	150.8	161.6	3.00	2.99	
1,107.2	23.91	115.92	1,084.0	-61.6	153.4	164.5	3.00	2.99	A GROOVE
1,200.0	26.69	116.49	1,167.9	-79.2	189.0	204.1	3.00	2.99	
1,285.0	29.23	116.92	1,243.0	-97.1	224.6	244.0	3.00	2.99	B GROOVE
1,300.0	29.68	116.99	1,256.1	-100.4	231.2	251.4	3.00	2.99	
1,331.2	30.61	117.13	1,283.0	-107.5	245.1	267.0	3.00	2.99	B GROOVE BASE
1,400.0	32.67	117.41	1,341.6	-124.1	277.2	303.1	3.00	2.99	
1,491.1	35.40	117.73	1,417.1	-147.7	322.4	354.1	3.00	2.99	EOB @ Inc. = 35.4°
1,500.0	35.40	117.73	1,424.3	-150.1	327.0	359.3	0.00	0.00	
1,600.0	35.40	117.73	1,505.9	-177.0	378.3	417.2	0.00	0.00	
1,700.0	35.40	117.73	1,587.4	-204.0	429.5	475.1	0.00	0.00	
1,800.0	35.40	117.73	1,668.9	-231.0	480.8	533.0	0.00	0.00	
1,900.0	35.40	117.73	1,750.4	-257.9	532.1	591.0	0.00	0.00	
2,000.0	35.40	117.73	1,831.9	-284.9	583.4	648.9	0.00	0.00	
2,100.0	35.40	117.73	1,913.4	-311.8	634.6	706.8	0.00	0.00	
2,200.0	35.40	117.73	1,994.9	-338.8	685.9	764.8	0.00	0.00	
2,300.0	35.40	117.73	2,076.5	-365.7	737.2	822.7	0.00	0.00	
2,376.7	35.40	117.73	2,139.0	-386.4	776.5	867.1	0.00	0.00	GARDEN GULCH
2,400.0	35.40	117.73	2,158.0	-392.7	788.4	880.6	0.00	0.00	
2,500.0	35.40	117.73	2,239.5	-419.7	839.7	938.5	0.00	0.00	
2,600.0	35.40	117.73	2,321.0	-446.6	891.0	996.5	0.00	0.00	
2,700.0	35.40	117.73	2,402.5	-473.6	942.3	1,054.4	0.00	0.00	
2,800.0	35.40	117.73	2,484.0	-500.5	993.5	1,112.3	0.00	0.00	
2,900.0	35.40	117.73	2,565.5	-527.5	1,044.8	1,170.2	0.00	0.00	
3,000.0	35.40	117.73	2,647.1	-554.4	1,096.1	1,228.2	0.00	0.00	
3,100.0	35.40	117.73	2,728.6	-581.4	1,147.4	1,286.1	0.00	0.00	
3,200.0	35.40	117.73	2,810.1	-608.4	1,198.6	1,344.0	0.00	0.00	
3,300.0	35.40	117.73	2,891.6	-635.3	1,249.9	1,401.9	0.00	0.00	
3,400.0	35.40	117.73	2,973.1	-662.3	1,301.2	1,459.9	0.00	0.00	
3,500.0	35.40	117.73	3,054.6	-689.2	1,352.4	1,517.8	0.00	0.00	
3,600.0	35.40	117.73	3,136.1	-716.2	1,403.7	1,575.7	0.00	0.00	
3,686.9	35.40	117.73	3,207.0	-739.6	1,448.3	1,626.1	0.00	0.00	WASATCH FM
3,700.0	35.40	117.73	3,217.6	-743.1	1,455.0	1,633.7	0.00	0.00	
3,800.0	35.40	117.73	3,299.2	-770.1	1,506.3	1,691.6	0.00	0.00	
3,900.0	35.40	117.73	3,380.7	-797.1	1,557.5	1,749.5	0.00	0.00	
4,000.0	35.40	117.73	3,462.2	-824.0	1,608.8	1,807.4	0.00	0.00	
4,100.0	35.40	117.73	3,543.7	-851.0	1,660.1	1,865.4	0.00	0.00	
4,200.0	35.40	117.73	3,625.2	-877.9	1,711.3	1,923.3	0.00	0.00	
4,300.0	35.40	117.73	3,706.7	-904.9	1,762.6	1,981.2	0.00	0.00	
4,400.0	35.40	117.73	3,788.2	-931.8	1,813.9	2,039.1	0.00	0.00	
4,500.0	35.40	117.73	3,869.8	-958.8	1,865.2	2,097.1	0.00	0.00	

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<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
4,600.0	35.40	117.73	3,951.3	-985.7	1,916.4	2,155.0	0.00	0.00	
4,700.0	35.40	117.73	4,032.8	-1,012.7	1,967.7	2,212.9	0.00	0.00	
4,800.0	35.40	117.73	4,114.3	-1,039.7	2,019.0	2,270.9	0.00	0.00	
4,900.0	35.40	117.73	4,195.8	-1,066.6	2,070.3	2,328.8	0.00	0.00	
5,000.0	35.40	117.73	4,277.3	-1,093.6	2,121.5	2,386.7	0.00	0.00	
5,100.0	35.40	117.73	4,358.8	-1,120.5	2,172.8	2,444.6	0.00	0.00	
5,200.0	35.40	117.73	4,440.4	-1,147.5	2,224.1	2,502.6	0.00	0.00	
5,300.0	35.40	117.73	4,521.9	-1,174.4	2,275.3	2,560.5	0.00	0.00	
5,400.0	35.40	117.73	4,603.4	-1,201.4	2,326.6	2,618.4	0.00	0.00	
5,500.0	35.40	117.73	4,684.9	-1,228.4	2,377.9	2,676.3	0.00	0.00	
5,600.0	35.40	117.73	4,766.4	-1,255.3	2,429.2	2,734.3	0.00	0.00	
5,700.0	35.40	117.73	4,847.9	-1,282.3	2,480.4	2,792.2	0.00	0.00	
5,800.0	35.40	117.73	4,929.4	-1,309.2	2,531.7	2,850.1	0.00	0.00	
5,900.0	35.40	117.73	5,010.9	-1,336.2	2,583.0	2,908.0	0.00	0.00	
6,000.0	35.40	117.73	5,092.5	-1,363.1	2,634.2	2,966.0	0.00	0.00	
6,100.0	35.40	117.73	5,174.0	-1,390.1	2,685.5	3,023.9	0.00	0.00	
6,200.0	35.40	117.73	5,255.5	-1,417.1	2,736.8	3,081.8	0.00	0.00	
6,300.0	35.40	117.73	5,337.0	-1,444.0	2,788.1	3,139.8	0.00	0.00	
6,301.2	35.40	117.73	5,338.0	-1,444.3	2,788.7	3,140.5	0.00	0.00	WASATCH G
6,400.0	35.40	117.73	5,418.5	-1,471.0	2,839.3	3,197.7	0.00	0.00	
6,500.0	35.40	117.73	5,500.0	-1,497.9	2,890.6	3,255.6	0.00	0.00	
6,600.0	35.40	117.73	5,581.5	-1,524.9	2,941.9	3,313.5	0.00	0.00	
6,700.0	35.40	117.73	5,663.1	-1,551.8	2,993.2	3,371.5	0.00	0.00	
6,800.0	35.40	117.73	5,744.6	-1,578.8	3,044.4	3,429.4	0.00	0.00	
6,900.0	35.40	117.73	5,826.1	-1,605.8	3,095.7	3,487.3	0.00	0.00	
7,000.0	35.40	117.73	5,907.6	-1,632.7	3,147.0	3,545.2	0.00	0.00	
7,100.0	35.40	117.73	5,989.1	-1,659.7	3,198.2	3,603.2	0.00	0.00	
7,200.0	35.40	117.73	6,070.6	-1,686.6	3,249.5	3,661.1	0.00	0.00	
7,300.0	35.40	117.73	6,152.1	-1,713.6	3,300.8	3,719.0	0.00	0.00	
7,400.0	35.40	117.73	6,233.7	-1,740.5	3,352.1	3,777.0	0.00	0.00	
7,500.0	35.40	117.73	6,315.2	-1,767.5	3,403.3	3,834.9	0.00	0.00	
7,600.0	35.40	117.73	6,396.7	-1,794.5	3,454.6	3,892.8	0.00	0.00	
7,700.0	35.40	117.73	6,478.2	-1,821.4	3,505.9	3,950.7	0.00	0.00	
7,800.0	35.40	117.73	6,559.7	-1,848.4	3,557.1	4,008.7	0.00	0.00	
7,900.0	35.40	117.73	6,641.2	-1,875.3	3,608.4	4,066.6	0.00	0.00	
8,000.0	35.40	117.73	6,722.7	-1,902.3	3,659.7	4,124.5	0.00	0.00	
8,100.0	35.40	117.73	6,804.2	-1,929.2	3,711.0	4,182.4	0.00	0.00	
8,132.8	35.40	117.73	6,831.0	-1,938.1	3,727.8	4,201.4	0.00	0.00	Start 3° Drop
8,200.0	33.38	117.73	6,886.4	-1,955.7	3,761.4	4,239.4	3.00	-3.00	
8,300.0	30.38	117.73	6,971.3	-1,980.3	3,808.1	4,292.2	3.00	-3.00	
8,400.0	27.38	117.73	7,058.9	-2,002.8	3,850.9	4,340.5	3.00	-3.00	
8,500.0	24.38	117.73	7,148.8	-2,023.1	3,889.5	4,384.2	3.00	-3.00	
8,600.0	21.38	117.73	7,241.0	-2,041.2	3,923.9	4,423.0	3.00	-3.00	
8,700.0	18.38	117.73	7,335.0	-2,057.0	3,954.0	4,457.0	3.00	-3.00	
8,800.0	15.38	117.73	7,430.7	-2,070.6	3,979.7	4,486.1	3.00	-3.00	
8,812.8	15.00	117.73	7,443.0	-2,072.1	3,982.7	4,489.4	3.00	-3.00	WILLIAMS FORK @ 15°
8,900.0	12.38	117.73	7,527.7	-2,081.7	4,001.0	4,510.1	3.00	-3.00	
9,000.0	9.38	117.73	7,625.9	-2,090.5	4,017.7	4,529.0	3.00	-3.00	
9,100.0	6.38	117.73	7,725.0	-2,096.9	4,029.8	4,542.7	3.00	-3.00	
9,200.0	3.38	117.73	7,824.6	-2,100.8	4,037.4	4,551.2	3.00	-3.00	
9,300.0	0.38	117.73	7,924.5	-2,102.4	4,040.3	4,554.5	3.00	-3.00	
9,312.8	0.00	0.00	7,937.3	-2,102.4	4,040.3	4,554.5	3.00	-3.00	EOD @ Inc. = 0°

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<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
9,400.0	0.03	239.63	8,024.5	-2,102.4	4,040.3	4,554.5	0.03	0.03	
9,500.0	0.05	239.63	8,124.5	-2,102.4	4,040.2	4,554.5	0.03	0.03	
9,600.0	0.08	239.63	8,224.5	-2,102.5	4,040.1	4,554.4	0.03	0.03	
9,700.0	0.11	239.63	8,324.5	-2,102.6	4,040.0	4,554.3	0.03	0.03	
9,800.0	0.14	239.63	8,424.5	-2,102.7	4,039.8	4,554.2	0.03	0.03	
9,900.0	0.17	239.63	8,524.5	-2,102.8	4,039.6	4,554.1	0.03	0.03	
10,000.0	0.20	239.63	8,624.5	-2,103.0	4,039.3	4,553.9	0.03	0.03	
10,100.0	0.23	239.63	8,724.5	-2,103.2	4,039.0	4,553.7	0.03	0.03	
10,200.0	0.26	239.63	8,824.5	-2,103.4	4,038.6	4,553.5	0.03	0.03	
10,300.0	0.28	239.63	8,924.5	-2,103.6	4,038.2	4,553.2	0.03	0.03	
10,400.0	0.31	239.63	9,024.5	-2,103.9	4,037.7	4,553.0	0.03	0.03	
10,500.0	0.34	239.63	9,124.5	-2,104.2	4,037.2	4,552.6	0.03	0.03	
10,600.0	0.37	239.63	9,224.5	-2,104.5	4,036.7	4,552.3	0.03	0.03	
10,700.0	0.40	239.63	9,324.5	-2,104.8	4,036.1	4,552.0	0.03	0.03	
10,800.0	0.43	239.63	9,424.5	-2,105.2	4,035.5	4,551.6	0.03	0.03	
10,900.0	0.46	239.63	9,524.5	-2,105.6	4,034.8	4,551.2	0.03	0.03	
11,000.0	0.49	239.63	9,624.5	-2,106.0	4,034.1	4,550.7	0.03	0.03	
11,038.5	0.50	239.63	9,663.0	-2,106.2	4,033.8	4,550.6	0.03	0.03	
11,100.0	0.50	239.63	9,724.5	-2,106.5	4,033.4	4,550.3	0.00	0.00	
11,200.0	0.50	239.63	9,824.5	-2,106.9	4,032.6	4,549.8	0.00	0.00	
11,300.0	0.50	239.63	9,924.5	-2,107.3	4,031.9	4,549.4	0.00	0.00	
11,400.0	0.50	239.63	10,024.5	-2,107.8	4,031.1	4,548.9	0.00	0.00	
11,500.0	0.50	239.63	10,124.5	-2,108.2	4,030.4	4,548.5	0.00	0.00	
11,600.0	0.50	239.63	10,224.5	-2,108.6	4,029.6	4,548.0	0.00	0.00	
11,700.0	0.50	239.63	10,324.5	-2,109.1	4,028.9	4,547.5	0.00	0.00	
11,800.0	0.50	239.63	10,424.5	-2,109.5	4,028.1	4,547.1	0.00	0.00	
11,900.0	0.50	239.63	10,524.5	-2,110.0	4,027.4	4,546.6	0.00	0.00	
12,000.0	0.50	239.63	10,624.5	-2,110.4	4,026.6	4,546.2	0.00	0.00	
12,100.0	0.50	239.63	10,724.5	-2,110.8	4,025.9	4,545.7	0.00	0.00	
12,200.0	0.50	239.63	10,824.5	-2,111.3	4,025.1	4,545.2	0.00	0.00	
12,300.0	0.50	239.63	10,924.5	-2,111.7	4,024.4	4,544.8	0.00	0.00	
12,400.0	0.50	239.63	11,024.5	-2,112.2	4,023.6	4,544.3	0.00	0.00	
12,445.5	0.50	239.63	11,070.0	-2,112.4	4,023.3	4,544.1	0.00	0.00	TD @ 12,445.5' MD - ROLLINS
12,500.0	0.50	239.63	11,124.5	-2,112.6	4,022.9	4,543.9	0.00	0.00	
12,600.0	0.50	239.63	11,224.5	-2,113.0	4,022.1	4,543.4	0.00	0.00	
12,700.0	0.50	239.63	11,324.4	-2,113.5	4,021.4	4,543.0	0.00	0.00	
12,702.6	0.50	239.63	11,327.0	-2,113.5	4,021.4	4,542.9	0.00	0.00	COZZETTE
12,800.0	0.50	239.63	11,424.4	-2,113.9	4,020.6	4,542.5	0.00	0.00	
12,884.6	0.50	239.63	11,509.0	-2,114.3	4,020.0	4,542.1	0.00	0.00	CORCORAN
12,900.0	0.50	239.63	11,524.4	-2,114.3	4,019.9	4,542.0	0.00	0.00	
13,000.0	0.50	239.63	11,624.4	-2,114.8	4,019.2	4,541.6	0.00	0.00	Permit TD @ 13,000' MD

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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)		
UWF15A-03 BHL (2)	0.00	0.00	11,070.0	-2,112.4	4,023.3	1,668,915.30	2,253,601.01	39° 38' 24.23 N	108° 9' 2.67 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
UWF10D-03 TGT	0.00	0.00	7,443.0	-1,570.1	4,055.4	1,669,456.39	2,253,649.00	39° 38' 29.59 N	108° 9' 2.26 W
- plan misses target center by 505.2ft at 8763.6ft MD (7395.7 TVD, -2065.9 N, 3970.9 E)									
- Point									
UWF15A-03 TGT (2)	0.00	0.00	7,937.3	-2,102.4	4,040.3	1,668,924.75	2,253,618.30	39° 38' 24.33 N	108° 9' 2.45 W
- plan hits target center									
- Point									
UWF10D-03 BHL	0.00	0.00	11,070.0	-1,580.1	4,040.4	1,669,446.79	2,253,633.74	39° 38' 29.49 N	108° 9' 2.45 W
- plan misses target center by 532.5ft at 12443.1ft MD (11067.5 TVD, -2112.3 N, 4023.3 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,107.2	1,084.0	A GROOVE				
1,285.0	1,243.0	B GROOVE				
1,331.2	1,283.0	B GROOVE BASE				
2,376.7	2,139.0	GARDEN GULCH				
3,686.9	3,207.0	WASATCH FM				
6,301.2	5,338.0	WASATCH G				
8,812.8	7,443.0	WILLIAMS FORK @ 15°				
12,445.5	11,070.0	ROLLINS				
12,702.6	11,327.0	COZZETTE				
12,884.6	11,509.0	CORCORAN				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
300.0	300.0	0.0	0.0	KOP @ 300'	
1,491.1	1,417.1	-147.7	322.4	EOB @ Inc. = 35.4°	
8,132.8	6,831.0	-1,938.1	3,727.8	Start 3° Drop	
9,312.8	7,937.3	-2,102.4	4,040.3	EOD @ Inc. = 0°	
12,445.5	11,070.0	-2,112.4	4,023.3	TD @ 12,445.5' MD	
13,000.0	11,624.4	-2,114.8	4,019.2	Permit TD @ 13,000' MD	

# **EnCana Oil & Gas (USA) Inc**

**North Piceance**

**H04 596 Pad**

**UWF15A-03 H04 596 (was 10D-03)**

**DD**

**Plan #2**

## **Anticollision Report**

**18 October, 2012**

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #2
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria
<b>Interpolation Method:</b>	MD Interval 100.0ft
<b>Depth Range:</b>	Unlimited
<b>Results Limited by:</b>	Maximum center-center distance of 500.0ft
<b>Warning Levels Evaluated at:</b>	2.00 Sigma
<b>Error Model:</b>	Systematic Ellipse
<b>Scan Method:</b>	Closest Approach 3D
<b>Error Surface:</b>	Elliptical Conic

<b>Survey Tool Program</b>	<b>Date</b>	10/18/2012
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>
0.0	13,000.0	Plan #2 (DD)
		<b>Tool Name</b>
		MWD
		<b>Description</b>
		Geolink MWD



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
H04 596 Pad						
CP01B-04 H04 ST1 - Existing - Existing	502.3	535.5	112.2	110.4	62.861	CC, ES
CP01B-04 H04 ST1 - Existing - Existing	800.0	825.0	129.7	126.5	40.531	SF
CP05B-03 H04 - Existing - Existing	415.7	426.4	136.3	134.9	96.536	CC, ES
CP05B-03 H04 - Existing - Existing	1,100.0	1,099.6	169.2	164.2	33.891	SF
CP08D-04 H04 - Existing - Existing	345.6	355.8	127.4	126.3	111.817	CC
CP08D-04 H04 - Existing - Existing	400.0	410.2	127.5	126.2	95.649	ES
CP08D-04 H04 - Existing - Existing	1,000.0	994.8	173.4	169.2	40.864	SF
CP12D-03 H04 - Existing - Existing	100.0	108.3	148.4	148.1	536.785	CC
CP12D-03 H04 - Existing - Existing	200.0	208.1	148.7	148.1	237.708	ES
CP12D-03 H04 - Existing - Existing	1,200.0	1,183.2	227.9	221.9	38.277	SF
UWF02A-09 H04 596 - DD - Plan #1	133.9	133.9	81.1	80.8	230.405	CC, ES
UWF02A-09 H04 596 - DD - Plan #1	600.0	579.1	125.9	123.7	57.197	SF
UWF02B-09 H04 596 - DD - Plan #1	300.0	300.0	90.5	89.5	97.054	CC, ES
UWF02B-09 H04 596 - DD - Plan #1	1,000.0	1,003.5	118.3	114.2	28.898	SF
UWF02C-04 H04 596 - DD - Plan #1	300.0	300.0	139.7	138.8	149.919	CC, ES
UWF02C-04 H04 596 - DD - Plan #1	800.0	755.0	206.6	203.5	65.835	SF
UWF02D-04 H04 596 - DD - Plan #1	200.0	200.0	139.5	138.9	239.266	CC, ES
UWF02D-04 H04 596 - DD - Plan #1	700.0	663.5	194.6	191.9	72.089	SF
UWF02E-04 H04 596 - DD - Plan #1	386.4	386.4	119.5	118.3	96.459	CC
UWF02E-04 H04 596 - DD - Plan #1	400.0	400.0	119.5	118.3	92.849	ES
UWF02E-04 H04 596 - DD - Plan #1	700.0	686.4	138.6	136.0	53.020	SF
UWF04A-10 H04 596 - DD - Plan #1	233.5	233.5	79.9	79.2	114.256	CC, ES
UWF04A-10 H04 596 - DD - Plan #1	1,900.0	1,780.4	474.4	453.4	22.658	SF
UWF04B-04 H04 596 - DD - Plan #1	424.5	423.8	129.0	127.7	93.383	CC, ES
UWF04B-04 H04 596 - DD - Plan #1	800.0	770.2	175.2	172.1	56.309	SF
UWF04B-10 H04 596 - DD - Plan #1	200.0	200.0	90.3	89.7	154.939	CC, ES
UWF04B-10 H04 596 - DD - Plan #1	1,800.0	1,663.4	474.9	455.8	24.936	SF
UWF04C-04 H04 596 - DD - Plan #1	509.9	516.1	119.1	117.0	58.950	CC, ES
UWF04C-04 H04 596 - DD - Plan #1	700.0	690.2	142.0	138.9	45.156	SF
UWF04C-10 H04 596 - DD - Plan #1	133.4	133.4	99.9	99.6	285.101	CC, ES
UWF04C-10 H04 596 - DD - Plan #1	1,700.0	1,546.5	473.7	456.8	27.917	SF
UWF04D-03 H04 596 - DD - Plan #1	200.0	200.0	119.9	119.4	205.757	CC, ES
UWF04D-03 H04 596 - DD - Plan #1	1,400.0	1,324.2	374.9	365.2	38.635	SF
UWF04D-10 H04 596 - DD - Plan #1	133.3	133.3	101.0	100.7	288.433	CC, ES
UWF04D-10 H04 596 - DD - Plan #1	1,400.0	1,280.0	486.3	477.0	52.287	SF
UWF04E-03 H04 596 - DD - Plan #1	300.0	300.0	109.4	108.4	117.338	CC, ES
UWF04E-03 H04 596 - DD - Plan #1	1,300.0	1,251.6	293.9	285.5	35.109	SF
UWF04E-04 H04 596 - DD - Plan #1	365.9	365.9	110.1	109.0	94.100	CC
UWF04E-04 H04 596 - DD - Plan #1	400.0	399.9	110.2	108.9	85.161	ES
UWF04E-04 H04 596 - DD - Plan #1	700.0	684.2	138.5	135.8	51.341	SF
UWF05A-03 H04 596 - DD - Plan #1	200.0	200.0	100.0	99.4	171.474	CC, ES
UWF05A-03 H04 596 - DD - Plan #1	1,300.0	1,260.9	262.9	254.1	29.923	SF
UWF05A-04 H04 596 - DD - Plan #1	373.6	373.7	90.2	89.0	75.283	CC
UWF05A-04 H04 596 - DD - Plan #1	400.0	400.1	90.3	89.0	69.750	ES
UWF05A-04 H04 596 - DD - Plan #1	600.0	593.9	101.0	98.8	46.144	SF
UWF05B-03 H04 596 - DD - Plan #2	300.0	300.0	89.4	88.4	95.891	CC, ES
UWF05B-03 H04 596 - DD - Plan #2	1,200.0	1,179.0	193.8	186.5	26.383	SF
UWF05C-03 H04 596 - DD - Plan #1	300.0	300.0	69.4	68.4	74.443	CC, ES
UWF05C-03 H04 596 - DD - Plan #1	1,100.0	1,090.4	129.4	122.9	20.046	SF
UWF05D-03 H04 596 - DD - Plan #1	521.5	521.2	48.2	46.3	26.272	CC, ES
UWF05D-03 H04 596 - DD - Plan #1	1,000.0	997.1	73.6	68.1	13.372	SF
UWF05E-03 H04 596 - DD - Plan #1	952.1	950.6	33.4	27.9	6.077	CC, ES
UWF05E-03 H04 596 - DD - Plan #1	1,000.0	998.2	33.9	27.9	5.666	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
H04 596 Pad						
UWF06B-04 H04 596 - DD - Plan #1	332.9	333.2	70.2	69.1	65.350	CC, ES
UWF06B-04 H04 596 - DD - Plan #1	600.0	589.9	93.6	91.4	41.523	SF
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #2	412.1	413.6	47.4	46.0	33.793	CC, ES
UWF06E-04 H04 596 (was 07E-04) - DD - Plan #2	500.0	499.6	51.1	49.3	28.161	SF
UWF07A-04 H04 596 - DD - Plan #1	300.0	300.0	99.7	98.7	106.928	CC
UWF07A-04 H04 596 - DD - Plan #1	400.0	400.0	99.7	98.4	77.433	ES
UWF07A-04 H04 596 - DD - Plan #1	700.0	686.6	126.2	123.6	49.052	SF
UWF07B-03 H04 596 - DD - Plan #1	200.0	200.0	80.0	79.4	137.183	CC, ES
UWF07B-03 H04 596 - DD - Plan #1	2,300.0	2,214.2	484.6	452.6	15.154	SF
UWF07B-04 H04 596 - DD - Plan #2	300.0	300.0	79.8	78.9	85.625	CC
UWF07B-04 H04 596 - DD - Plan #2	400.0	399.5	80.1	78.8	62.216	ES
UWF07B-04 H04 596 - DD - Plan #2	700.0	693.9	96.9	94.4	38.153	SF
UWF07C-03 H04 596 - DD - Plan #1	200.0	200.0	60.0	59.4	102.893	CC, ES
UWF07C-03 H04 596 - DD - Plan #1	2,600.0	2,521.7	492.4	453.5	12.652	SF
UWF07C-04 H04 596 - DD - Plan #1	381.5	381.9	59.9	58.7	48.821	CC
UWF07C-04 H04 596 - DD - Plan #1	400.0	400.3	60.0	58.7	46.319	ES
UWF07C-04 H04 596 - DD - Plan #1	600.0	594.7	74.2	72.1	34.587	SF
UWF07E-03 H04 596 - DD - Plan #1	300.0	300.0	40.5	39.6	43.463	CC, ES
UWF07E-03 H04 596 - DD - Plan #1	3,100.0	3,089.4	489.5	441.1	10.107	SF
UWF10A-03 H04 596 - DD - Plan #1	200.0	200.0	20.0	19.4	34.298	CC, ES
UWF10A-03 H04 596 - DD - Plan #1	3,400.0	3,348.7	424.1	365.9	7.289	SF
UWF10A-04 H04 596 - DD - Plan #1	378.6	379.4	28.9	27.6	22.989	CC, ES
UWF10A-04 H04 596 - DD - Plan #1	500.0	498.5	37.4	35.6	21.096	SF
UWF10B-03 H04 596 - DD - Plan #1	300.0	300.0	21.6	20.7	23.186	CC, ES
UWF10B-03 H04 596 - DD - Plan #1	4,600.0	4,631.6	492.8	410.0	5.949	SF
UWF10C-03 H04 596 - DD - Plan #1	141.8	141.8	9.6	9.3	25.355	CC
UWF10C-03 H04 596 - DD - Plan #1	200.0	199.9	9.8	9.2	16.739	ES
UWF10C-03 H04 596 - DD - Plan #1	5,900.0	5,850.4	495.2	379.0	4.261	SF
UWF10C-04 H04 596 - DD - Plan #1	233.3	233.3	14.4	13.7	20.561	CC, ES
UWF10C-04 H04 596 - DD - Plan #1	400.0	399.2	19.6	18.3	15.277	SF
UWF10E-04 H04 596 - DD - Plan #1	300.0	300.0	22.7	21.8	24.387	CC, ES
UWF10E-04 H04 596 - DD - Plan #1	400.0	398.6	26.8	25.5	20.861	SF
UWF12A-03 H04 596 - DD - Plan #2	403.1	403.1	29.3	28.0	22.518	CC, ES
UWF12A-03 H04 596 - DD - Plan #2	600.0	600.3	34.4	32.3	16.600	SF
UWF12B-03 H04 596 - DD - Plan #1	300.0	300.0	14.0	13.1	15.063	CC, ES
UWF12B-03 H04 596 - DD - Plan #1	500.0	500.7	19.6	18.0	11.985	SF
UWF12C-03 H04 596 - DD - Plan #1	300.0	300.0	10.4	9.5	11.140	CC
UWF12C-03 H04 596 - DD - Plan #1	311.1	311.1	10.4	9.4	10.691	ES
UWF12C-03 H04 596 - DD - Plan #1	400.0	400.0	10.8	9.6	8.425	SF
UWF12E-03 H04 596 - DD - Plan #1	300.0	300.0	20.0	19.1	21.443	CC, ES
UWF12E-03 H04 596 - DD - Plan #1	500.0	499.6	23.5	21.8	14.145	SF
UWF13A-03 H04 596 - DD - Plan #1	300.0	300.0	30.4	29.4	32.583	CC
UWF13A-03 H04 596 - DD - Plan #1	400.0	400.0	30.7	29.4	23.852	ES
UWF13A-03 H04 596 - DD - Plan #1	600.0	598.5	39.4	37.4	18.998	SF
UWF13B-03 H04 596 - DD - Plan #2	300.0	300.0	40.0	39.0	42.886	CC
UWF13B-03 H04 596 - DD - Plan #2	400.0	400.0	40.3	39.0	31.325	ES
UWF13B-03 H04 596 - DD - Plan #2	1,500.0	1,473.3	232.3	220.3	19.448	SF
UWF13C-03 H04 596 - DD - Plan #2	300.0	300.0	50.3	49.4	54.020	CC
UWF13C-03 H04 596 - DD - Plan #2	400.0	400.0	50.7	49.4	39.350	ES
UWF13C-03 H04 596 - DD - Plan #2	1,900.0	1,836.6	382.8	363.6	19.945	SF
UWF13D-03 H04 596 - DD - Plan #1	300.0	300.0	60.0	59.0	64.338	CC
UWF13D-03 H04 596 - DD - Plan #1	308.6	308.6	60.0	59.0	62.308	ES
UWF13D-03 H04 596 - DD - Plan #1	2,100.0	2,009.6	473.6	449.9	20.025	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
H04 596 Pad						
UWF13E-03 H04 596 - DD - Plan #1	300.0	300.0	70.3	69.4	75.467	CC, ES
UWF13E-03 H04 596 - DD - Plan #1	2,000.0	1,895.4	473.8	451.2	21.026	SF
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #2	300.0	300.0	50.9	49.9	54.577	CC, ES
UWF14C-04 H04 596 (was 15C-04) - DD - Plan #2	600.0	595.4	64.3	62.2	31.021	SF
UWF15A-04 H04 596 - DD - Plan #1	300.0	300.0	31.9	30.9	34.189	CC, ES
UWF15A-04 H04 596 - DD - Plan #1	500.0	499.6	37.4	35.8	22.607	SF
UWF15B-03 H04 596 (was 10E-03) - DD - Plan #2	300.0	300.0	9.6	8.7	10.303	CC, ES
UWF15B-03 H04 596 (was 10E-03) - DD - Plan #2	12,804.2	13,000.0	267.1	105.3	1.651	SF
UWF15B-04 H04 596 - DD - Plan #1	300.0	300.0	41.7	40.8	44.754	CC, ES
UWF15B-04 H04 596 - DD - Plan #1	500.0	494.2	56.4	54.7	34.119	SF
UWF15D-04 H04 596 - DD - Plan #1	300.0	300.0	61.4	60.4	65.834	CC, ES
UWF15D-04 H04 596 - DD - Plan #1	600.0	593.6	75.5	73.4	36.345	SF
UWF15E-04 H04 596 - DD - Plan #1	133.3	133.3	70.6	70.3	201.601	CC, ES
UWF15E-04 H04 596 - DD - Plan #1	1,300.0	1,132.0	449.9	442.5	60.518	SF
WF10D O03 - Existing - Existing	7,886.7	36,758.3	98.3	-51.3	0.657	Level 1, CC, ES, SF

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												H04 596 Pad - CP01B-04 H04 ST1 - Existing - Existing		Offset Site Error:		0.0 ft
Survey Program:		17-MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	37.0	4.3	0.0	0.0	-161.14	-109.0	-37.2	115.4							
100.0	100.0	129.1	96.4	0.1	0.2	-161.55	-109.6	-36.6	115.5	115.2	0.31	369.344				
200.0	200.0	229.8	197.1	0.3	0.4	-161.43	-109.8	-36.9	115.9	115.2	0.66	174.762				
300.0	300.0	331.6	298.9	0.5	0.6	-160.72	-108.6	-38.0	115.0	114.0	1.02	113.227				
400.0	400.0	433.0	400.2	0.6	0.7	102.15	-105.2	-39.9	113.1	111.7	1.38	82.030				
500.0	499.6	533.2	500.2	0.9	0.9	107.88	-101.0	-42.0	112.2	110.4	1.77	63.236				
502.3	502.0	535.5	502.6	0.9	0.9	107.82	-100.9	-42.0	112.2	110.4	1.78	62.861	CC, ES			
600.0	598.8	632.5	599.3	1.1	1.1	110.10	-95.1	-45.1	113.0	110.7	2.22	50.777				
700.0	697.2	729.4	696.0	1.5	1.3	117.57	-88.9	-48.2	117.7	115.0	2.71	43.378				
800.0	794.5	825.0	791.4	1.9	1.5	127.13	-82.8	-51.9	129.7	126.5	3.20	40.531	SF			
900.0	890.5	918.4	884.3	2.4	1.7	136.73	-75.6	-55.9	149.7	146.1	3.64	41.117				
1,000.0	984.9	1,011.2	976.7	3.1	2.0	145.29	-67.5	-60.5	178.8	174.8	4.01	44.627				
1,100.0	1,077.4	1,102.8	1,067.9	3.8	2.2	151.87	-59.9	-63.4	214.3	210.0	4.32	49.595				
1,200.0	1,167.9	1,188.7	1,153.5	4.6	2.4	156.73	-52.6	-66.1	256.8	252.2	4.61	55.703				
1,300.0	1,256.1	1,269.4	1,233.7	5.5	2.6	160.58	-44.3	-69.3	306.3	301.4	4.87	62.925				
1,400.0	1,341.6	1,346.5	1,310.2	6.6	2.8	163.50	-36.0	-73.1	362.3	357.2	5.10	70.984				
1,500.0	1,424.3	1,425.6	1,388.8	7.7	3.0	165.98	-27.7	-77.1	423.5	418.2	5.32	79.540				
1,600.0	1,505.9	1,496.9	1,459.6	8.8	3.2	168.44	-20.1	-80.9	487.1	481.6	5.56	87.670				

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - CP05B-03 H04 - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 17-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	37.0	24.3	0.0	0.0	-161.78	-130.7	-43.0	140.3					
100.0	100.0	110.2	97.6	0.1	0.2	-161.85	-130.6	-42.8	137.5	137.2	0.28	491.692		
200.0	200.0	210.2	197.6	0.3	0.3	-162.01	-130.4	-42.3	137.1	136.5	0.63	218.087		
300.0	300.0	310.0	297.4	0.5	0.5	-162.96	-130.7	-40.1	136.7	135.7	0.98	139.835		
400.0	400.0	411.1	398.3	0.6	0.7	96.40	-131.2	-35.9	136.3	135.0	1.35	100.992		
415.7	415.7	426.4	413.6	0.7	0.7	96.48	-131.3	-35.2	136.3	134.9	1.41	96.536 CC, ES		
500.0	499.6	508.8	495.9	0.9	0.9	97.76	-132.4	-31.7	137.2	135.5	1.75	78.578		
600.0	598.8	609.4	596.4	1.1	1.1	94.28	-133.9	-27.3	138.3	136.1	2.21	62.721		
700.0	697.2	708.9	695.7	1.5	1.3	96.06	-135.5	-22.5	139.4	136.7	2.74	50.964		
800.0	794.5	809.1	795.8	1.9	1.5	101.35	-135.8	-17.1	140.4	137.0	3.33	42.171		
900.0	890.5	906.9	893.5	2.4	1.7	108.89	-135.8	-11.8	144.4	140.5	3.94	36.639		
1,000.0	984.9	1,003.2	989.7	3.1	1.8	118.26	-133.9	-7.0	153.1	148.6	4.51	33.935		
1,100.0	1,077.4	1,099.6	1,086.0	3.8	2.0	127.82	-132.1	-2.0	169.2	164.2	4.99	33.891 SF		
1,200.0	1,167.9	1,196.4	1,182.4	4.6	2.2	136.86	-128.9	5.4	191.0	185.7	5.36	35.657		
1,300.0	1,256.1	1,286.9	1,272.5	5.5	2.5	144.35	-125.1	13.1	220.3	214.7	5.63	39.110		
1,400.0	1,341.6	1,373.4	1,358.6	6.6	2.6	150.43	-121.1	20.0	258.0	252.1	5.85	44.077		
1,500.0	1,424.3	1,458.3	1,443.1	7.7	2.8	155.57	-116.4	26.6	303.1	297.1	6.02	50.340		
1,600.0	1,505.9	1,544.3	1,528.6	8.8	3.0	160.52	-111.2	33.7	351.8	345.6	6.14	57.288		
1,700.0	1,587.4	1,629.4	1,613.2	9.9	3.2	164.43	-105.2	41.4	401.5	395.3	6.28	63.977		
1,800.0	1,668.9	1,710.3	1,693.6	11.1	3.4	167.41	-99.1	48.7	452.6	446.2	6.45	70.229		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - CP08D-04 H04 - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 17-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	37.0	24.3	0.0	0.0	-161.51	-121.5	-40.6	131.0					
100.0	100.0	109.9	97.2	0.1	0.2	-161.48	-121.3	-40.6	127.9	127.7	0.28	458.288		
200.0	200.0	210.0	197.3	0.3	0.3	-161.41	-121.1	-40.7	127.7	127.1	0.63	203.231		
300.0	300.0	310.1	297.4	0.5	0.5	-161.42	-120.8	-40.6	127.5	126.5	0.98	130.336		
345.6	345.6	355.8	343.1	0.5	0.6	98.79	-120.7	-40.5	127.4	126.3	1.14	111.817 CC		
400.0	400.0	410.2	397.5	0.6	0.7	99.64	-120.5	-40.3	127.5	126.2	1.33	95.649 ES		
500.0	499.6	510.0	497.3	0.9	0.9	102.88	-120.2	-39.8	128.6	126.9	1.72	74.802		
600.0	598.8	608.8	596.0	1.1	1.0	101.42	-120.0	-39.5	130.8	128.7	2.15	60.720		
700.0	697.2	706.9	694.2	1.5	1.2	105.11	-120.0	-39.3	134.8	132.2	2.65	50.909		
800.0	794.5	804.2	791.5	1.9	1.4	111.69	-119.9	-39.4	142.3	139.1	3.19	44.663		
900.0	890.5	900.5	887.8	2.4	1.5	119.42	-119.8	-39.2	154.5	150.8	3.73	41.434		
1,000.0	984.9	994.8	982.1	3.1	1.7	127.26	-119.6	-39.4	173.4	169.2	4.24	40.864 SF		
1,100.0	1,077.4	1,087.3	1,074.6	3.8	1.9	134.28	-119.6	-39.0	198.8	194.1	4.71	42.194		
1,200.0	1,167.9	1,176.2	1,163.5	4.6	2.0	140.02	-120.4	-39.2	232.0	226.8	5.14	45.088		
1,300.0	1,256.1	1,264.9	1,252.2	5.5	2.2	144.80	-121.5	-39.3	271.4	265.8	5.54	48.941		
1,400.0	1,341.6	1,347.9	1,335.1	6.6	2.3	148.44	-122.7	-40.0	317.2	311.3	5.93	53.461		
1,500.0	1,424.3	1,432.0	1,419.3	7.7	2.5	151.68	-123.7	-40.7	368.6	362.3	6.29	58.587		
1,600.0	1,505.9	1,509.2	1,496.5	8.8	2.6	155.02	-124.3	-41.5	423.1	416.5	6.58	64.261		
1,700.0	1,587.4	1,592.6	1,579.9	9.9	2.8	157.88	-124.8	-42.7	478.9	472.0	6.85	69.926		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - CP12D-03 H04 - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 17-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	37.0	24.3	0.0	0.0	-161.89	-140.8	-46.1	150.9					
100.0	100.0	108.3	95.6	0.1	0.2	-162.21	-141.3	-45.3	148.4	148.1	0.28	536.785	CC	
200.0	200.0	208.1	195.4	0.3	0.3	-162.76	-142.0	-44.1	148.7	148.1	0.63	237.708	ES	
300.0	300.0	307.3	294.6	0.5	0.5	-163.58	-143.3	-42.2	149.4	148.4	0.97	153.249		
400.0	400.0	404.5	391.8	0.6	0.7	96.18	-145.8	-39.8	151.5	150.1	1.34	112.965		
500.0	499.6	503.9	491.1	0.9	0.9	97.70	-149.5	-37.5	155.3	153.5	1.74	89.464		
600.0	598.8	602.3	589.3	1.1	1.1	94.10	-153.6	-35.4	159.7	157.5	2.19	73.026		
700.0	697.2	700.6	687.5	1.5	1.3	95.54	-158.0	-33.8	164.6	161.9	2.71	60.725		
800.0	794.5	798.7	785.5	1.9	1.5	99.59	-162.7	-31.9	171.0	167.7	3.32	51.582		
900.0	890.5	896.9	883.6	2.4	1.6	105.38	-167.2	-29.8	179.8	175.8	3.98	45.185		
1,000.0	984.9	996.2	982.7	3.1	1.8	112.20	-171.0	-26.5	191.3	186.7	4.67	40.972		
1,100.0	1,077.4	1,094.0	1,080.4	3.8	2.0	119.41	-173.4	-21.8	206.5	201.2	5.33	38.726		
1,200.0	1,167.9	1,183.2	1,169.4	4.6	2.2	125.77	-176.0	-17.1	227.9	221.9	5.95	38.277	SF	
1,300.0	1,256.1	1,269.8	1,255.8	5.5	2.4	131.19	-180.6	-13.7	257.7	251.1	6.54	39.383		
1,400.0	1,341.6	1,356.3	1,342.2	6.6	2.6	136.01	-185.6	-11.1	294.8	287.7	7.09	41.589		
1,500.0	1,424.3	1,442.8	1,428.5	7.7	2.7	140.30	-190.7	-8.5	338.0	330.4	7.59	44.548		
1,600.0	1,505.9	1,529.1	1,514.5	8.8	2.9	144.77	-196.2	-5.6	384.5	376.6	7.97	48.225		
1,700.0	1,587.4	1,619.1	1,604.2	9.9	3.1	148.31	-203.0	-1.8	431.8	423.5	8.35	51.730		
1,800.0	1,668.9	1,708.6	1,693.3	11.1	3.3	151.14	-209.7	2.9	479.2	470.5	8.70	55.074		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF02A-09 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-157.32	-74.9	-31.3	81.1					
100.0	100.0	100.0	100.0	0.1	0.1	-157.32	-74.9	-31.3	81.1	80.9	0.23	346.946		
133.9	133.9	133.9	133.9	0.2	0.2	-157.32	-74.9	-31.3	81.1	80.8	0.35	230.405 CC, ES		
200.0	200.0	199.2	199.2	0.3	0.3	-156.91	-74.9	-31.9	81.4	80.8	0.58	139.954		
300.0	300.0	297.3	297.1	0.5	0.5	-153.72	-74.9	-37.0	83.5	82.6	0.93	89.889		
400.0	400.0	394.3	393.6	0.6	0.7	113.39	-74.9	-46.9	89.6	88.2	1.35	66.318		
500.0	499.6	488.6	486.8	0.9	1.0	123.62	-74.9	-61.2	103.0	101.3	1.78	57.932		
600.0	598.8	579.1	575.5	1.1	1.4	127.00	-74.9	-79.3	125.9	123.7	2.20	57.197 SF		
700.0	697.2	664.7	658.5	1.5	1.8	132.11	-74.9	-100.2	158.8	156.2	2.60	61.032		
800.0	794.5	744.7	735.2	1.9	2.3	136.49	-74.9	-123.1	201.4	198.4	2.99	67.450		
900.0	890.5	818.6	805.0	2.4	2.8	139.67	-74.9	-147.1	253.0	249.6	3.38	74.955		
1,000.0	984.9	886.1	868.0	3.1	3.2	141.78	-74.9	-171.4	312.4	308.7	3.79	82.438		
1,100.0	1,077.4	947.0	924.0	3.8	3.7	142.99	-74.9	-195.2	378.8	374.5	4.25	89.110		
1,200.0	1,167.9	1,000.0	972.2	4.6	4.1	143.38	-74.9	-217.3	451.1	446.3	4.78	94.357		



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF02B-09 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-158.17	-84.0	-33.6	90.5					
100.0	100.0	100.0	100.0	0.1	0.1	-158.17	-84.0	-33.6	90.5	90.2	0.23	386.767		
200.0	200.0	200.0	200.0	0.3	0.3	-158.17	-84.0	-33.6	90.5	89.9	0.58	155.170		
300.0	300.0	300.0	300.0	0.5	0.5	-158.17	-84.0	-33.6	90.5	89.5	0.93	97.054 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	103.42	-84.0	-33.6	91.0	89.7	1.29	70.724		
500.0	499.6	499.6	499.6	0.9	0.8	108.05	-84.0	-33.6	93.2	91.5	1.67	55.791		
600.0	598.8	598.8	598.8	1.1	1.0	108.41	-84.0	-33.6	97.1	95.0	2.10	46.283		
700.0	697.2	700.9	700.9	1.5	1.2	113.51	-84.0	-31.0	101.9	99.3	2.58	39.497		
800.0	794.5	803.8	803.5	1.9	1.4	120.01	-84.0	-22.8	106.3	103.2	3.10	34.318		
900.0	890.5	907.3	906.0	2.4	1.6	127.39	-84.0	-9.0	110.8	107.2	3.62	30.621		
1,000.0	984.9	1,003.5	1,000.8	3.1	1.9	134.56	-85.1	6.9	118.3	114.2	4.09	28.898 SF		
1,100.0	1,077.4	1,096.2	1,092.5	3.8	2.1	140.61	-90.0	20.2	134.8	130.3	4.54	29.713		
1,200.0	1,167.9	1,187.4	1,182.6	4.6	2.4	144.97	-98.5	31.0	159.9	154.9	5.00	32.019		
1,300.0	1,256.1	1,276.4	1,270.4	5.5	2.6	147.66	-110.5	39.3	192.7	187.2	5.51	34.960		
1,400.0	1,341.6	1,362.6	1,355.1	6.6	2.9	149.06	-125.4	45.3	232.3	226.2	6.12	37.963		
1,500.0	1,424.3	1,445.6	1,436.1	7.7	3.1	149.67	-142.9	49.2	278.1	271.3	6.83	40.741		
1,600.0	1,505.9	1,526.2	1,514.2	8.8	3.4	150.47	-162.7	51.2	327.5	320.0	7.57	43.245		
1,700.0	1,587.4	1,605.0	1,589.9	9.9	3.7	150.55	-184.8	51.3	378.7	370.3	8.43	44.940		
1,800.0	1,668.9	1,681.9	1,662.9	11.1	4.1	150.18	-208.9	49.8	431.6	422.2	9.39	45.968		
1,900.0	1,750.4	1,756.7	1,733.0	12.2	4.4	149.53	-234.6	46.8	486.2	475.7	10.44	46.560		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													H04 596 Pad - UWF02C-04 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	15.59	134.6	37.5	139.7								
100.0	100.0	100.0	100.0	0.1	0.1	15.59	134.6	37.5	139.7	139.5	0.23	597.437					
200.0	200.0	200.0	200.0	0.3	0.3	15.59	134.6	37.5	139.7	139.1	0.58	239.690					
300.0	300.0	300.0	300.0	0.5	0.5	15.59	134.6	37.5	139.7	138.8	0.93	149.919	CC, ES				
400.0	400.0	396.2	396.2	0.6	0.6	-86.25	136.3	35.9	140.8	139.5	1.29	109.542					
500.0	499.6	491.1	490.8	0.9	0.8	-91.46	141.4	30.9	145.0	143.3	1.69	85.969					
600.0	598.8	583.3	582.3	1.1	1.1	-105.82	149.6	22.9	155.4	153.3	2.15	72.313					
700.0	697.2	671.6	669.3	1.5	1.4	-117.39	160.3	12.3	175.5	172.9	2.65	66.327					
800.0	794.5	755.0	750.7	1.9	1.7	-126.78	173.1	-0.2	206.6	203.5	3.14	65.835	SF				
900.0	890.5	834.7	827.8	2.4	2.1	-134.22	187.6	-14.4	248.4	244.8	3.60	68.994					
1,000.0	984.9	917.5	907.6	3.1	2.5	-140.28	203.4	-29.9	297.9	293.8	4.04	73.741					
1,100.0	1,077.4	997.3	984.5	3.8	2.9	-144.85	218.6	-44.8	353.2	348.7	4.46	79.170					
1,200.0	1,167.9	1,073.8	1,058.2	4.6	3.2	-148.31	233.2	-59.0	413.7	408.8	4.88	84.825					
1,300.0	1,256.1	1,146.8	1,128.6	5.5	3.6	-150.95	247.1	-72.6	478.9	473.6	5.29	90.464					

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													H04 596 Pad - UWF02D-04 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program:													0-MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	11.65	136.6	28.2	139.5								
100.0	100.0	100.0	100.0	0.1	0.1	11.65	136.6	28.2	139.5	139.2	0.23	596.378					
200.0	200.0	200.0	200.0	0.3	0.3	11.65	136.6	28.2	139.5	138.9	0.58	239.266	CC, ES				
300.0	300.0	296.7	296.6	0.5	0.5	10.76	138.1	26.3	140.7	139.7	0.93	151.330					
400.0	400.0	392.6	392.2	0.6	0.7	-92.65	142.7	20.6	144.5	143.2	1.31	110.066					
500.0	499.6	486.4	485.3	0.9	0.9	-98.92	150.1	11.5	152.6	150.9	1.75	87.318					
600.0	598.8	576.8	574.3	1.1	1.3	-113.56	160.0	-0.6	168.4	166.2	2.23	75.653					
700.0	697.2	663.5	658.9	1.5	1.6	-124.70	171.9	-15.2	194.6	191.9	2.70	72.089	SF				
800.0	794.5	752.9	745.9	1.9	2.0	-133.71	185.2	-31.5	229.7	226.5	3.15	72.856					
900.0	890.5	839.9	830.4	2.4	2.4	-140.56	198.1	-47.4	271.7	268.1	3.57	76.078					
1,000.0	984.9	924.2	912.3	3.1	2.7	-145.80	210.6	-62.8	319.9	316.0	3.97	80.677					
1,100.0	1,077.4	1,005.5	991.4	3.8	3.1	-149.84	222.7	-77.6	373.8	369.4	4.34	86.055					
1,200.0	1,167.9	1,083.7	1,067.4	4.6	3.5	-152.98	234.3	-91.9	432.7	428.0	4.71	91.842					
1,300.0	1,256.1	1,158.5	1,140.1	5.5	3.8	-155.43	245.4	-105.5	496.4	491.3	5.08	97.805					

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF02E-04 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	10.94	117.4	22.7	119.6					
100.0	100.0	100.0	100.0	0.1	0.1	10.94	117.4	22.7	119.6	119.3	0.23	511.200		
200.0	200.0	200.0	200.0	0.3	0.3	10.94	117.4	22.7	119.6	119.0	0.58	205.093		
300.0	300.0	300.0	300.0	0.5	0.5	10.94	117.4	22.7	119.6	118.6	0.93	128.279		
386.4	386.4	386.4	386.4	0.6	0.6	-90.00	117.4	22.7	119.5	118.3	1.24	96.459 CC		
400.0	400.0	400.0	400.0	0.6	0.6	-90.32	117.4	22.7	119.5	118.3	1.29	92.849 ES		
500.0	499.6	499.1	499.1	0.9	0.8	-95.24	117.8	20.2	120.1	118.4	1.68	71.535		
600.0	598.8	595.9	595.6	1.1	1.0	-111.11	119.1	12.8	124.5	122.4	2.13	58.403		
700.0	697.2	686.4	685.4	1.5	1.2	-124.92	122.1	2.1	138.6	136.0	2.61	53.020 SF		
800.0	794.5	772.5	770.2	1.9	1.5	-136.29	127.6	-11.0	165.4	162.4	3.07	53.891		
900.0	890.5	856.2	852.2	2.4	1.8	-145.11	135.3	-26.2	204.2	200.7	3.46	58.935		
1,000.0	984.9	941.6	935.6	3.1	2.1	-151.82	143.7	-42.2	250.9	247.1	3.81	65.789		
1,100.0	1,077.4	1,024.1	1,016.3	3.8	2.4	-156.70	151.8	-57.6	303.6	299.5	4.13	73.594		
1,200.0	1,167.9	1,103.5	1,093.9	4.6	2.8	-160.32	159.5	-72.5	361.7	357.3	4.41	81.955		
1,300.0	1,256.1	1,179.7	1,168.4	5.5	3.1	-163.05	167.0	-86.8	424.6	419.9	4.68	90.658		
1,400.0	1,341.6	1,252.4	1,239.4	6.6	3.3	-165.15	174.1	-100.4	491.9	486.9	4.94	99.605		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04A-10 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-164.10	-76.9	-21.9	79.9					
100.0	100.0	100.0	100.0	0.1	0.1	-164.10	-76.9	-21.9	79.9	79.7	0.23	341.845		
200.0	200.0	200.0	200.0	0.3	0.3	-164.10	-76.9	-21.9	79.9	79.4	0.58	137.147		
233.5	233.5	233.5	233.5	0.3	0.3	-164.10	-76.9	-21.9	79.9	79.2	0.70	114.256	CC, ES	
300.0	300.0	298.4	298.4	0.5	0.5	-164.37	-77.5	-21.7	80.4	79.5	0.93	86.530		
400.0	400.0	395.0	394.9	0.6	0.7	95.14	-82.0	-19.8	84.7	83.4	1.29	65.831		
500.0	499.6	491.2	490.5	0.9	0.9	95.81	-90.9	-16.0	93.3	91.6	1.69	55.149		
600.0	598.8	586.6	584.8	1.1	1.2	90.37	-104.1	-10.3	105.5	103.3	2.19	48.230		
700.0	697.2	681.2	677.6	1.5	1.5	88.69	-121.5	-3.0	120.3	117.5	2.80	42.892		
800.0	794.5	775.0	768.4	1.9	2.0	88.52	-142.9	6.1	137.8	134.2	3.57	38.624		
900.0	890.5	867.8	857.1	2.4	2.5	88.99	-168.1	16.8	158.0	153.6	4.49	35.205		
1,000.0	984.9	959.6	943.4	3.1	3.1	89.70	-196.9	29.0	181.0	175.4	5.57	32.479		
1,100.0	1,077.4	1,050.3	1,027.1	3.8	3.7	90.44	-229.0	42.6	206.6	199.8	6.82	30.311		
1,200.0	1,167.9	1,139.9	1,108.0	4.6	4.4	91.12	-264.3	57.6	234.8	226.6	8.22	28.582		
1,300.0	1,256.1	1,228.2	1,186.0	5.5	5.2	91.70	-302.5	73.8	265.6	255.8	9.77	27.193		
1,400.0	1,341.6	1,315.6	1,261.2	6.6	6.0	92.15	-343.5	91.2	298.7	287.3	11.45	26.079		
1,500.0	1,424.3	1,408.8	1,340.3	7.7	6.9	93.12	-388.8	110.4	333.1	319.8	13.31	25.024		
1,600.0	1,505.9	1,501.7	1,419.2	8.8	7.7	95.28	-434.0	129.6	367.9	352.7	15.22	24.174		
1,700.0	1,587.4	1,594.6	1,498.1	9.9	8.6	97.08	-479.1	148.8	403.1	386.0	17.13	23.536		
1,800.0	1,668.9	1,687.5	1,577.0	11.1	9.5	98.59	-524.3	167.9	438.6	419.6	19.03	23.045		
1,900.0	1,750.4	1,780.4	1,655.9	12.2	10.4	99.88	-569.5	187.1	474.4	453.4	20.94	22.658	SF	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04B-04 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	15.79	124.5	35.2	129.3					
100.0	100.0	100.0	100.0	0.1	0.1	15.79	124.5	35.2	129.3	129.1	0.23	553.036		
200.0	200.0	200.0	200.0	0.3	0.3	15.79	124.5	35.2	129.3	128.8	0.58	221.877		
300.0	300.0	300.0	300.0	0.5	0.5	15.79	124.5	35.2	129.3	128.4	0.93	138.777		
400.0	400.0	400.0	400.0	0.6	0.6	-85.37	124.5	35.2	129.1	127.8	1.29	100.279		
424.5	424.4	423.8	423.8	0.7	0.7	-86.05	124.5	35.1	129.0	127.7	1.38	93.383	CC, ES	
500.0	499.6	496.9	496.9	0.9	0.8	-89.71	125.9	33.2	129.7	128.1	1.67	77.514		
600.0	598.8	591.7	591.4	1.1	1.0	-104.38	130.0	27.3	135.2	133.1	2.12	63.657		
700.0	697.2	682.9	681.9	1.5	1.2	-117.28	136.5	18.1	149.6	147.0	2.62	57.057		
800.0	794.5	770.2	767.9	1.9	1.5	-128.50	144.9	5.8	175.2	172.1	3.11	56.309	SF	
900.0	890.5	852.9	848.7	2.4	1.8	-137.74	154.0	-9.1	212.0	208.4	3.57	59.360		
1,000.0	984.9	929.1	922.4	3.1	2.2	-144.89	163.2	-25.9	259.2	255.3	3.98	65.164		
1,100.0	1,077.4	1,000.0	990.4	3.8	2.5	-150.35	172.4	-44.1	315.8	311.5	4.34	72.756		
1,200.0	1,167.9	1,060.9	1,048.1	4.6	2.9	-154.21	180.9	-61.6	380.5	375.8	4.69	81.058		
1,300.0	1,256.1	1,116.5	1,100.1	5.5	3.3	-157.11	189.0	-79.1	452.1	447.1	5.02	89.966		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04B-10 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.43	-87.0	-24.2	90.3					
100.0	100.0	100.0	100.0	0.1	0.1	-164.43	-87.0	-24.2	90.3	90.1	0.23	386.190		
200.0	200.0	200.0	200.0	0.3	0.3	-164.43	-87.0	-24.2	90.3	89.7	0.58	154.939 CC, ES		
300.0	300.0	296.3	296.2	0.5	0.5	-165.34	-89.3	-23.4	92.3	91.4	0.93	99.035		
400.0	400.0	392.2	391.8	0.6	0.7	93.44	-96.0	-20.7	98.7	97.4	1.29	76.393		
500.0	499.6	487.4	486.3	0.9	0.9	93.44	-107.1	-16.3	109.4	107.7	1.71	64.121		
600.0	598.8	581.7	579.1	1.1	1.3	87.41	-122.4	-10.3	123.5	121.3	2.21	55.929		
700.0	697.2	675.1	670.2	1.5	1.7	85.25	-141.7	-2.6	140.2	137.4	2.83	49.535		
800.0	794.5	767.5	759.2	1.9	2.2	84.72	-164.8	6.5	159.4	155.8	3.59	44.382		
900.0	890.5	858.8	845.8	2.4	2.7	84.93	-191.6	17.1	181.3	176.7	4.51	40.217		
1,000.0	984.9	948.9	929.9	3.1	3.3	85.48	-221.8	29.0	205.7	200.1	5.58	36.867		
1,100.0	1,077.4	1,037.8	1,011.2	3.8	4.0	86.15	-255.2	42.2	232.7	225.9	6.81	34.179		
1,200.0	1,167.9	1,125.4	1,089.6	4.6	4.7	86.82	-291.5	56.6	262.2	254.0	8.19	32.018		
1,300.0	1,256.1	1,211.7	1,165.1	5.5	5.5	87.42	-330.4	72.0	294.2	284.5	9.72	30.271		
1,400.0	1,341.6	1,300.0	1,240.2	6.6	6.3	88.00	-373.6	89.0	328.6	317.1	11.42	28.776		
1,500.0	1,424.3	1,386.8	1,312.6	7.7	7.2	88.74	-418.1	106.6	364.6	351.3	13.23	27.553		
1,600.0	1,505.9	1,479.0	1,389.4	8.8	8.1	90.85	-465.6	125.4	401.0	385.8	15.17	26.439		
1,700.0	1,587.4	1,571.2	1,466.2	9.9	9.0	92.61	-513.0	144.1	437.8	420.7	17.10	25.594		
1,800.0	1,668.9	1,663.4	1,543.0	11.1	9.9	94.09	-560.5	162.9	474.9	455.8	19.04	24.936 SF		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04C-04 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	11.44	127.5	25.8	130.1					
100.0	100.0	100.0	100.0	0.1	0.1	11.44	127.5	25.8	130.1	129.9	0.23	556.238		
200.0	200.0	201.8	201.8	0.3	0.3	11.18	127.3	25.2	129.7	129.2	0.59	221.277		
300.0	300.0	305.2	305.0	0.5	0.5	9.02	125.3	19.9	127.0	126.1	0.94	134.478		
400.0	400.0	407.3	406.5	0.6	0.8	-96.88	121.6	9.6	122.4	121.0	1.40	87.218		
500.0	499.6	506.5	504.5	0.9	1.1	-107.71	116.2	-5.4	119.1	117.2	1.95	60.965		
509.9	509.4	516.1	513.9	0.9	1.1	-109.97	115.5	-7.1	119.1	117.0	2.02	58.950 CC, ES		
600.0	598.8	601.8	597.6	1.1	1.5	-128.88	109.3	-24.2	123.6	121.0	2.59	47.797		
700.0	697.2	690.2	683.1	1.5	1.9	-146.36	101.9	-45.5	142.0	138.9	3.15	45.156 SF		
800.0	794.5	771.5	761.0	1.9	2.4	-159.04	96.7	-68.0	176.8	173.2	3.56	49.616		
900.0	890.5	847.3	833.0	2.4	2.8	-167.67	93.6	-91.4	224.6	220.8	3.87	58.081		
1,000.0	984.9	917.0	898.5	3.1	3.3	-173.45	92.3	-115.1	282.5	278.4	4.11	68.788		
1,100.0	1,077.4	980.3	957.4	3.8	3.7	-177.42	92.4	-138.2	348.3	344.0	4.30	80.911		
1,200.0	1,167.9	1,037.1	1,009.7	4.6	4.2	179.73	93.5	-160.4	420.6	416.2	4.47	94.089		
1,300.0	1,256.1	1,087.4	1,055.6	5.5	4.5	177.55	95.3	-181.1	498.4	493.8	4.62	108.005		



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		H04 596 Pad - UWF04C-10 H04 596 - DD - Plan #1											Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.10	-96.1	-27.4	99.9					
100.0	100.0	100.0	100.0	0.1	0.1	-164.10	-96.1	-27.4	99.9	99.7	0.23	427.297		
133.4	133.4	133.4	133.4	0.2	0.2	-164.10	-96.1	-27.4	99.9	99.6	0.35	285.101	CC, ES	
200.0	200.0	198.0	198.0	0.3	0.3	-164.30	-96.7	-27.2	100.4	99.9	0.58	173.150		
300.0	300.0	293.7	293.5	0.5	0.5	-165.85	-101.2	-25.5	104.5	103.6	0.94	111.004		
400.0	400.0	388.7	388.1	0.6	0.7	92.42	-110.1	-22.2	113.0	111.7	1.30	87.057		
500.0	499.6	482.9	481.3	0.9	1.0	91.92	-123.3	-17.3	125.9	124.2	1.72	73.235		
600.0	598.8	576.1	572.6	1.1	1.4	85.44	-140.5	-11.0	142.1	139.9	2.23	63.833		
700.0	697.2	668.3	661.9	1.5	1.8	82.89	-161.7	-3.1	160.8	157.9	2.85	56.441		
800.0	794.5	759.3	749.0	1.9	2.3	82.02	-186.5	6.0	181.8	178.2	3.60	50.444		
900.0	890.5	849.0	833.5	2.4	2.9	81.98	-214.8	16.5	205.4	200.9	4.51	45.558		
1,000.0	984.9	937.5	915.4	3.1	3.5	82.33	-246.2	28.1	231.4	225.8	5.56	41.593		
1,100.0	1,077.4	1,024.6	994.4	3.8	4.2	82.86	-280.7	40.9	259.9	253.1	6.77	38.380		
1,200.0	1,167.9	1,110.4	1,070.4	4.6	4.9	83.45	-317.9	54.6	290.8	282.6	8.13	35.775		
1,300.0	1,256.1	1,194.7	1,143.4	5.5	5.7	84.00	-357.5	69.3	324.0	314.4	9.63	33.643		
1,400.0	1,341.6	1,277.7	1,213.3	6.6	6.6	84.49	-399.4	84.8	359.6	348.3	11.28	31.878		
1,500.0	1,424.3	1,363.6	1,283.8	7.7	7.4	85.16	-445.5	101.8	397.1	384.0	13.08	30.361		
1,600.0	1,505.9	1,455.1	1,358.5	8.8	8.4	87.19	-494.9	120.1	435.2	420.2	15.02	28.976		
1,700.0	1,587.4	1,546.5	1,433.2	9.9	9.3	88.90	-544.4	138.4	473.7	456.8	16.97	27.917	SF	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													H04 596 Pad - UWF04D-03 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	15.90	115.4	32.9	119.9								
100.0	100.0	100.0	100.0	0.1	0.1	15.90	115.4	32.9	119.9	119.7	0.23	512.856					
200.0	200.0	200.0	200.0	0.3	0.3	15.90	115.4	32.9	119.9	119.4	0.58	205.757	CC, ES				
300.0	300.0	296.6	296.6	0.5	0.5	16.90	115.7	35.2	121.0	120.1	0.93	130.580					
400.0	400.0	391.3	391.0	0.6	0.7	-81.85	118.7	41.2	125.6	124.3	1.29	97.123					
500.0	499.6	485.5	484.6	0.9	0.9	-81.66	124.7	50.7	133.7	132.0	1.71	78.246					
600.0	598.8	578.9	576.6	1.1	1.2	-89.18	133.6	63.6	146.2	144.0	2.21	66.165					
700.0	697.2	671.0	666.5	1.5	1.6	-93.79	145.3	79.7	164.0	161.1	2.82	58.178					
800.0	794.5	766.7	759.2	1.9	2.0	-97.58	159.4	98.8	186.0	182.4	3.55	52.380					
900.0	890.5	863.1	852.6	2.4	2.5	-101.49	173.8	118.1	210.0	205.6	4.40	47.726					
1,000.0	984.9	958.5	945.0	3.1	2.9	-105.46	188.0	137.3	236.4	231.0	5.35	44.192					
1,100.0	1,077.4	1,052.6	1,036.0	3.8	3.4	-109.37	202.0	156.2	265.6	259.3	6.38	41.663					
1,200.0	1,167.9	1,145.1	1,125.6	4.6	3.8	-113.12	215.7	174.7	298.3	290.8	7.46	39.992					
1,300.0	1,256.1	1,235.7	1,213.3	5.5	4.2	-116.62	229.2	192.9	334.6	326.0	8.57	39.029					
1,400.0	1,341.6	1,324.2	1,299.1	6.6	4.7	-119.80	242.4	210.7	374.9	365.2	9.70	38.635	SF				
1,500.0	1,424.3	1,410.5	1,382.6	7.7	5.1	-122.73	255.2	228.0	419.3	408.5	10.83	38.702					
1,600.0	1,505.9	1,495.7	1,465.1	8.8	5.5	-126.02	267.9	245.1	466.2	454.3	11.93	39.068					

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													H04 596 Pad - UWF04D-10 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis				Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-158.66	-94.1	-36.8	101.0								
100.0	100.0	100.0	100.0	0.1	0.1	-158.66	-94.1	-36.8	101.0	100.8	0.23	431.936					
133.3	133.3	133.3	133.3	0.2	0.2	-158.66	-94.1	-36.8	101.0	100.7	0.35	288.433	CC, ES				
200.0	200.0	197.5	197.5	0.3	0.3	-158.61	-94.6	-37.1	101.6	101.1	0.58	175.428					
300.0	300.0	292.3	292.2	0.5	0.5	-158.23	-98.7	-39.4	106.5	105.6	0.94	113.260					
400.0	400.0	386.2	385.6	0.6	0.7	103.32	-106.7	-44.1	116.9	115.7	1.26	92.441					
500.0	499.6	478.4	476.8	0.9	1.0	106.57	-118.5	-50.8	133.7	132.1	1.63	81.784					
600.0	598.8	568.2	564.8	1.1	1.4	103.62	-133.6	-59.6	156.5	154.4	2.05	76.269					
700.0	697.2	655.1	649.3	1.5	1.8	104.05	-151.6	-70.0	184.8	182.3	2.53	72.918					
800.0	794.5	738.8	729.6	1.9	2.2	105.46	-172.1	-81.8	219.1	216.0	3.10	70.665					
900.0	890.5	819.3	805.7	2.4	2.7	106.97	-194.6	-94.8	259.1	255.4	3.75	69.019					
1,000.0	984.9	909.5	890.3	3.1	3.3	108.57	-222.8	-108.5	302.7	298.1	4.56	66.411					
1,100.0	1,077.4	1,000.5	975.2	3.8	3.8	109.59	-253.9	-119.0	347.4	341.9	5.50	63.114					
1,200.0	1,167.9	1,092.5	1,060.3	4.6	4.5	110.19	-288.0	-126.1	393.1	386.5	6.61	59.468					
1,300.0	1,256.1	1,185.7	1,145.6	5.5	5.1	110.50	-325.2	-129.9	439.5	431.6	7.87	55.809					
1,400.0	1,341.6	1,280.0	1,230.8	6.6	5.8	110.59	-365.6	-130.0	486.3	477.0	9.30	52.287	SF				

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04E-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	15.77	105.2	29.7	109.4					
100.0	100.0	100.0	100.0	0.1	0.1	15.77	105.2	29.7	109.4	109.1	0.23	467.602		
200.0	200.0	200.0	200.0	0.3	0.3	15.77	105.2	29.7	109.4	108.8	0.58	187.601		
300.0	300.0	300.0	300.0	0.5	0.5	15.77	105.2	29.7	109.4	108.4	0.93	117.338 CC, ES		
400.0	400.0	396.1	396.1	0.6	0.6	-84.59	106.4	31.8	110.9	109.6	1.28	86.355		
500.0	499.6	492.0	491.7	0.9	0.8	-85.61	109.9	38.2	115.4	113.8	1.68	68.562		
600.0	598.8	587.6	586.5	1.1	1.1	-93.94	115.7	48.6	124.0	121.9	2.17	57.114		
700.0	697.2	682.3	679.8	1.5	1.4	-98.96	123.8	63.1	137.7	134.9	2.78	49.544		
800.0	794.5	777.2	772.3	1.9	1.8	-102.55	134.0	81.4	156.1	152.6	3.51	44.529		
900.0	890.5	874.6	866.9	2.4	2.2	-106.22	145.0	101.3	177.5	173.2	4.35	40.782		
1,000.0	984.9	970.9	960.6	3.1	2.6	-110.16	155.9	121.0	201.5	196.2	5.29	38.116		
1,100.0	1,077.4	1,066.0	1,053.1	3.8	3.0	-114.15	166.7	140.4	228.6	222.3	6.28	36.379		
1,200.0	1,167.9	1,159.7	1,144.2	4.6	3.4	-118.01	177.4	159.5	259.3	252.0	7.32	35.423		
1,300.0	1,256.1	1,251.6	1,233.5	5.5	3.9	-121.64	187.8	178.3	293.9	285.5	8.37	35.109 SF		
1,400.0	1,341.6	1,341.5	1,320.9	6.6	4.3	-124.94	198.0	196.7	332.6	323.2	9.42	35.309		
1,500.0	1,424.3	1,429.1	1,406.2	7.7	4.6	-127.95	207.9	214.6	375.7	365.2	10.46	35.930		
1,600.0	1,505.9	1,515.8	1,490.5	8.8	5.0	-131.16	217.8	232.3	421.2	409.8	11.44	36.811		
1,700.0	1,587.4	1,602.5	1,574.7	9.9	5.4	-133.77	227.6	250.0	467.6	455.2	12.39	37.737		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF04E-04 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	10.64	108.3	20.3	110.2					
100.0	100.0	100.0	100.0	0.1	0.1	10.64	108.3	20.3	110.2	109.9	0.23	471.073		
200.0	200.0	200.0	200.0	0.3	0.3	10.64	108.3	20.3	110.2	109.6	0.58	188.994		
300.0	300.0	300.0	300.0	0.5	0.5	10.64	108.3	20.3	110.2	109.2	0.93	118.209		
365.9	365.9	365.9	365.9	0.6	0.6	-90.55	108.5	19.2	110.1	109.0	1.17	94.100 CC		
400.0	400.0	399.9	399.9	0.6	0.6	-92.08	108.7	17.8	110.2	108.9	1.29	85.161 ES		
500.0	499.6	498.2	497.8	0.9	0.9	-99.91	109.9	10.2	111.7	110.0	1.71	65.173		
600.0	598.8	593.4	592.2	1.1	1.1	-118.17	111.8	-1.9	119.5	117.3	2.20	54.250		
700.0	697.2	684.2	681.6	1.5	1.4	-133.59	114.2	-17.7	138.5	135.8	2.70	51.341 SF		
800.0	794.5	769.7	765.0	1.9	1.8	-145.84	117.2	-36.4	170.3	167.2	3.13	54.393		
900.0	890.5	849.1	841.5	2.4	2.2	-154.90	120.4	-57.1	214.1	210.6	3.49	61.368		
1,000.0	984.9	921.8	910.9	3.1	2.6	-161.44	123.8	-78.8	268.1	264.4	3.78	70.861		
1,100.0	1,077.4	987.7	973.0	3.8	3.0	-166.19	127.2	-100.7	330.7	326.7	4.03	81.976		
1,200.0	1,167.9	1,046.7	1,027.8	4.6	3.5	-169.70	130.6	-122.1	400.5	396.2	4.25	94.192		
1,300.0	1,256.1	1,100.0	1,076.8	5.5	3.8	-172.42	133.9	-142.8	476.3	471.9	4.43	107.529		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05A-03 H04 596 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	15.90	96.1	27.4	100.0				
100.0	100.0	100.0	100.0	0.1	0.1	15.90	96.1	27.4	100.0	99.7	0.23	427.404	
200.0	200.0	200.0	200.0	0.3	0.3	15.90	96.1	27.4	100.0	99.4	0.58	171.474	CC, ES
300.0	300.0	296.9	296.9	0.5	0.5	17.01	97.0	29.7	101.5	100.6	0.93	109.301	
400.0	400.0	393.5	393.2	0.6	0.7	-81.06	99.6	36.6	105.8	104.5	1.31	80.877	
500.0	499.6	489.7	488.6	0.9	1.0	-79.86	103.8	47.9	112.6	110.9	1.75	64.358	
600.0	598.8	585.4	582.8	1.1	1.3	-86.19	109.7	63.7	122.7	120.4	2.29	53.525	
700.0	697.2	683.2	678.4	1.5	1.7	-90.03	116.9	83.2	136.2	133.3	2.95	46.241	
800.0	794.5	781.9	774.8	1.9	2.1	-94.20	124.3	103.1	150.9	147.2	3.72	40.567	
900.0	890.5	880.0	870.6	2.4	2.5	-98.90	131.7	122.9	167.2	162.6	4.61	36.268	
1,000.0	984.9	977.2	965.5	3.1	2.9	-103.97	139.0	142.5	185.9	180.3	5.60	33.209	
1,100.0	1,077.4	1,073.3	1,059.3	3.8	3.3	-109.15	146.2	161.8	207.6	201.0	6.65	31.242	
1,200.0	1,167.9	1,167.9	1,151.8	4.6	3.7	-114.20	153.3	180.9	233.1	225.4	7.72	30.201	
1,300.0	1,256.1	1,260.9	1,242.6	5.5	4.1	-118.95	160.3	199.6	262.9	254.1	8.79	29.923	SF
1,400.0	1,341.6	1,352.0	1,331.5	6.6	4.4	-123.26	167.1	218.0	297.3	287.5	9.83	30.256	
1,500.0	1,424.3	1,440.8	1,418.3	7.7	4.8	-127.15	173.8	235.9	336.5	325.6	10.82	31.085	
1,600.0	1,505.9	1,528.8	1,504.1	8.8	5.2	-130.99	180.4	253.6	378.5	366.8	11.75	32.221	
1,700.0	1,587.4	1,616.7	1,590.0	9.9	5.5	-134.10	187.0	271.3	421.8	409.1	12.62	33.420	
1,800.0	1,668.9	1,704.6	1,675.9	11.1	5.9	-136.64	193.5	289.0	465.9	452.4	13.46	34.620	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05A-04 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	9.48	89.0	14.9	90.3					
100.0	100.0	100.0	100.0	0.1	0.1	9.48	89.0	14.9	90.3	90.0	0.23	386.024		
200.0	200.0	200.0	200.0	0.3	0.3	9.48	89.0	14.9	90.3	89.7	0.58	154.872		
300.0	300.0	300.0	300.0	0.5	0.5	9.48	89.0	14.9	90.3	89.3	0.93	96.868		
373.6	373.6	373.7	373.7	0.6	0.6	-92.33	89.2	13.4	90.2	89.0	1.20	75.283 CC		
400.0	400.0	400.1	400.0	0.6	0.6	-93.84	89.3	12.3	90.3	89.0	1.29	69.750 ES		
500.0	499.6	498.5	498.1	0.9	0.9	-103.39	90.0	4.6	92.0	90.3	1.71	53.702		
600.0	598.8	593.9	592.7	1.1	1.1	-123.74	91.2	-7.6	101.0	98.8	2.19	46.144 SF		
700.0	697.2	684.9	682.3	1.5	1.4	-140.46	92.7	-23.6	122.2	119.6	2.64	46.226		
800.0	794.5	770.6	765.8	1.9	1.8	-152.97	94.4	-42.6	156.5	153.5	3.03	51.719		
900.0	890.5	850.2	842.6	2.4	2.2	-161.76	96.4	-63.5	202.4	199.0	3.34	60.584		
1,000.0	984.9	923.2	912.2	3.1	2.6	-167.90	98.4	-85.5	257.9	254.3	3.60	71.557		
1,100.0	1,077.4	989.5	974.6	3.8	3.0	-172.29	100.5	-107.7	321.4	317.6	3.83	83.904		
1,200.0	1,167.9	1,048.8	1,029.8	4.6	3.5	-175.56	102.6	-129.4	391.8	387.8	4.03	97.183		
1,300.0	1,256.1	1,100.0	1,076.8	5.5	3.8	-178.05	104.4	-149.5	468.0	463.8	4.20	111.479		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05B-03 H04 596 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	15.74	86.0	24.2	89.4					
100.0	100.0	100.0	100.0	0.1	0.1	15.74	86.0	24.2	89.4	89.1	0.23	382.132		
200.0	200.0	200.0	200.0	0.3	0.3	15.74	86.0	24.2	89.4	88.8	0.58	153.311		
300.0	300.0	300.0	300.0	0.5	0.5	15.74	86.0	24.2	89.4	88.4	0.93	95.891 CC, ES		
400.0	400.0	397.9	397.9	0.6	0.6	-84.43	86.5	26.7	90.3	89.0	1.29	70.026		
500.0	499.6	495.8	495.5	0.9	0.9	-84.91	87.9	34.1	92.9	91.2	1.70	54.582		
600.0	598.8	593.5	592.4	1.1	1.1	-92.46	90.3	46.3	98.4	96.1	2.22	44.290		
700.0	697.2	690.9	688.2	1.5	1.4	-96.61	93.6	63.4	107.4	104.6	2.87	37.418		
800.0	794.5	790.2	785.4	1.9	1.8	-100.46	97.5	83.1	119.2	115.5	3.64	32.726		
900.0	890.5	888.8	882.0	2.4	2.2	-105.29	101.3	102.8	132.9	128.4	4.51	29.486		
1,000.0	984.9	986.7	977.9	3.1	2.6	-110.73	105.1	122.2	149.5	144.0	5.44	27.465		
1,100.0	1,077.4	1,083.5	1,072.7	3.8	2.9	-116.34	108.8	141.5	169.5	163.1	6.40	26.487		
1,200.0	1,167.9	1,179.0	1,166.1	4.6	3.3	-121.78	112.5	160.5	193.8	186.5	7.35	26.383 SF		
1,300.0	1,256.1	1,272.9	1,258.1	5.5	3.7	-126.79	116.2	179.2	222.8	214.5	8.25	26.993		
1,400.0	1,341.6	1,364.9	1,348.2	6.6	4.0	-131.24	119.7	197.5	256.6	247.5	9.11	28.173		
1,500.0	1,424.3	1,454.8	1,436.2	7.7	4.4	-135.16	123.2	215.4	295.5	285.5	9.91	29.817		
1,600.0	1,505.9	1,543.8	1,523.3	8.8	4.8	-138.82	126.7	233.1	337.1	326.4	10.63	31.701		
1,700.0	1,587.4	1,632.8	1,610.5	9.9	5.1	-141.69	130.1	250.8	379.6	368.3	11.33	33.519		
1,800.0	1,668.9	1,721.7	1,697.6	11.1	5.5	-144.00	133.6	268.5	422.8	410.8	12.00	35.237		
1,900.0	1,750.4	1,810.7	1,784.7	12.2	5.8	-145.88	137.0	286.2	466.5	453.8	12.66	36.846		



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05C-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	15.70	66.8	18.8	69.4					
100.0	100.0	100.0	100.0	0.1	0.1	15.70	66.8	18.8	69.4	69.1	0.23	296.662		
200.0	200.0	200.0	200.0	0.3	0.3	15.70	66.8	18.8	69.4	68.8	0.58	119.020		
300.0	300.0	300.0	300.0	0.5	0.5	15.70	66.8	18.8	69.4	68.4	0.93	74.443 CC, ES		
400.0	400.0	399.0	398.9	0.6	0.6	-84.39	66.8	21.3	69.9	68.6	1.29	54.087		
500.0	499.6	497.9	497.6	0.9	0.9	-84.63	66.9	29.0	71.3	69.6	1.71	41.642		
600.0	598.8	596.8	595.6	1.1	1.1	-91.80	67.1	41.8	74.6	72.4	2.24	33.261		
700.0	697.2	695.6	692.7	1.5	1.5	-95.50	67.4	59.6	80.8	77.9	2.92	27.664		
800.0	794.5	795.1	790.2	1.9	1.8	-99.25	67.7	80.2	89.2	85.4	3.71	24.012		
900.0	890.5	894.3	887.2	2.4	2.2	-104.77	68.0	100.6	99.4	94.8	4.60	21.619		
1,000.0	984.9	992.9	983.6	3.1	2.6	-111.37	68.3	121.0	112.5	107.0	5.53	20.334		
1,100.0	1,077.4	1,090.4	1,079.1	3.8	3.0	-118.29	68.6	141.1	129.4	122.9	6.45	20.046 SF		
1,200.0	1,167.9	1,186.8	1,173.4	4.6	3.4	-124.93	68.9	161.0	150.8	143.5	7.31	20.621		
1,300.0	1,256.1	1,281.7	1,266.2	5.5	3.8	-130.90	69.2	180.6	177.3	169.2	8.09	21.915		
1,400.0	1,341.6	1,374.8	1,357.3	6.6	4.1	-136.04	69.5	199.9	209.1	200.3	8.79	23.792		
1,500.0	1,424.3	1,465.9	1,446.5	7.7	4.5	-140.40	69.8	218.7	246.1	236.7	9.41	26.144		
1,600.0	1,505.9	1,556.2	1,534.8	8.8	4.9	-144.18	70.1	237.3	286.0	276.0	9.97	28.678		
1,700.0	1,587.4	1,646.5	1,623.1	9.9	5.2	-147.04	70.4	256.0	326.6	316.1	10.52	31.055		
1,800.0	1,668.9	1,736.7	1,711.5	11.1	5.6	-149.28	70.7	274.6	367.8	356.8	11.06	33.260		
1,900.0	1,750.4	1,827.0	1,799.8	12.2	6.0	-151.08	70.9	293.3	409.4	397.8	11.60	35.293		
2,000.0	1,831.9	1,917.3	1,888.1	13.3	6.3	-152.54	71.2	311.9	451.3	439.1	12.14	37.166		
2,100.0	1,913.4	2,007.5	1,976.4	14.5	6.7	-153.76	71.5	330.6	493.3	480.6	12.68	38.892		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05D-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	15.62	47.6	13.3	49.4					
100.0	100.0	100.0	100.0	0.1	0.1	15.62	47.6	13.3	49.4	0.23	211.193			
200.0	200.0	200.0	200.0	0.3	0.3	15.62	47.6	13.3	49.4	0.58	84.730			
300.0	300.0	300.0	300.0	0.5	0.5	15.62	47.6	13.3	49.4	0.93	52.996			
400.0	400.0	400.0	400.0	0.6	0.6	-84.38	46.7	15.8	48.9	1.29	37.819			
500.0	499.6	499.7	499.4	0.9	0.9	-84.43	44.6	23.2	48.2	1.72	28.065			
521.5	521.0	521.2	520.7	0.9	0.9	-86.43	44.1	25.5	48.2	1.83	26.272 CC, ES			
600.0	598.8	599.3	598.1	1.1	1.1	-91.32	42.1	35.9	48.9	2.26	21.653			
700.0	697.2	698.8	695.9	1.5	1.5	-94.65	39.2	53.6	51.8	2.95	17.554			
800.0	794.5	798.6	793.5	1.9	1.9	-98.66	35.9	74.3	56.7	3.76	15.097			
900.0	890.5	898.1	890.8	2.4	2.2	-106.02	32.7	95.0	63.6	4.64	13.705			
1,000.0	984.9	997.1	987.6	3.1	2.6	-115.24	29.4	115.5	73.6	5.50	13.372 SF			
1,100.0	1,077.4	1,095.2	1,083.5	3.8	3.0	-124.66	26.2	135.9	88.1	6.26	14.078			
1,200.0	1,167.9	1,192.2	1,178.3	4.6	3.4	-133.09	23.1	156.0	107.9	6.87	15.714			
1,300.0	1,256.1	1,287.8	1,271.8	5.5	3.8	-140.06	19.9	175.9	133.4	7.36	18.123			
1,400.0	1,341.6	1,381.8	1,363.7	6.6	4.2	-145.59	16.9	195.4	164.5	7.78	21.151			
1,500.0	1,424.3	1,473.9	1,453.7	7.7	4.6	-149.95	13.9	214.5	201.0	8.15	24.672			
1,600.0	1,505.9	1,565.1	1,542.9	8.8	4.9	-153.35	10.9	233.5	240.1	8.50	28.243			
1,700.0	1,587.4	1,656.3	1,632.1	9.9	5.3	-155.81	7.9	252.4	279.8	8.88	31.499			
1,800.0	1,668.9	1,747.5	1,721.3	11.1	5.7	-157.66	4.9	271.4	319.8	9.28	34.455			
1,900.0	1,750.4	1,838.8	1,810.4	12.2	6.1	-159.11	2.0	290.3	360.0	9.69	37.138			
2,000.0	1,831.9	1,930.0	1,899.6	13.3	6.4	-160.26	-1.0	309.2	400.4	10.12	39.577			
2,100.0	1,913.4	2,021.2	1,988.8	14.5	6.8	-161.20	-4.0	328.2	440.9	10.55	41.801			
2,200.0	1,994.9	2,112.4	2,078.0	15.6	7.2	-161.99	-7.0	347.1	481.4	10.98	43.834			

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF05E-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	15.89	38.5	11.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	15.89	38.5	11.0	40.0	39.8	0.23	170.994		
200.0	200.0	200.0	200.0	0.3	0.3	15.89	38.5	11.0	40.0	39.4	0.58	68.602		
300.0	300.0	300.2	300.1	0.5	0.5	18.29	37.8	12.5	39.8	38.9	0.93	42.684		
400.0	400.0	400.2	399.9	0.6	0.7	-75.56	35.1	18.7	39.0	37.7	1.33	29.462		
500.0	499.6	500.0	499.0	0.9	0.9	-68.83	30.3	29.8	37.6	35.8	1.80	20.899		
600.0	598.8	599.4	596.9	1.1	1.3	-68.35	23.5	45.4	36.4	34.0	2.38	15.327		
700.0	697.2	699.0	694.1	1.5	1.7	-65.34	14.9	65.3	36.3	33.3	3.03	11.976		
800.0	794.5	799.0	791.6	1.9	2.1	-67.88	6.0	85.8	35.5	31.6	3.83	9.266		
900.0	890.5	898.8	888.9	2.4	2.5	-78.42	-2.8	106.3	33.8	28.9	4.87	6.941		
952.1	939.8	950.6	939.4	2.8	2.7	-87.54	-7.5	117.0	33.4	27.9	5.49	6.077 CC, ES		
1,000.0	984.9	998.2	985.7	3.1	2.9	-97.88	-11.7	126.8	33.9	27.9	5.99	5.666 SF		
1,100.0	1,077.4	1,096.9	1,081.9	3.8	3.4	-121.34	-20.5	147.1	40.3	33.8	6.52	6.187		
1,200.0	1,167.9	1,194.6	1,177.1	4.6	3.8	-139.92	-29.2	167.1	55.3	48.9	6.41	8.638		
1,300.0	1,256.1	1,291.0	1,271.1	5.5	4.2	-151.71	-37.8	187.0	78.2	71.9	6.21	12.578		
1,400.0	1,341.6	1,386.0	1,363.6	6.6	4.6	-158.94	-46.2	206.5	107.5	101.4	6.14	17.501		
1,500.0	1,424.3	1,479.2	1,454.5	7.7	5.0	-163.56	-54.5	225.6	142.5	136.3	6.18	23.059		
1,600.0	1,505.9	1,571.5	1,544.5	8.8	5.4	-166.48	-62.7	244.6	180.0	173.7	6.34	28.401		
1,700.0	1,587.4	1,663.9	1,634.5	9.9	5.8	-168.40	-71.0	263.6	217.8	211.3	6.57	33.174		
1,800.0	1,668.9	1,756.3	1,724.6	11.1	6.2	-169.75	-79.2	282.6	255.8	248.9	6.83	37.441		
1,900.0	1,750.4	1,848.7	1,814.6	12.2	6.6	-170.75	-87.4	301.6	293.8	286.7	7.12	41.271		
2,000.0	1,831.9	1,941.1	1,904.6	13.3	7.0	-171.53	-95.6	320.6	331.9	324.4	7.42	44.723		
2,100.0	1,913.4	2,033.5	1,994.7	14.5	7.4	-172.14	-103.9	339.6	370.0	362.3	7.73	47.849		
2,200.0	1,994.9	2,125.8	2,084.7	15.6	7.8	-172.64	-112.1	358.6	408.1	400.1	8.05	50.692		
2,300.0	2,076.5	2,218.2	2,174.7	16.8	8.2	-173.05	-120.3	377.6	446.3	437.9	8.38	53.289		
2,400.0	2,158.0	2,310.6	2,264.8	17.9	8.6	-173.40	-128.5	396.6	484.5	475.8	8.70	55.669		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF06B-04 H04 596 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	7.66	69.8	9.4	70.5				
100.0	100.0	100.0	100.0	0.1	0.1	7.66	69.8	9.4	70.5	70.2	0.23	301.261	
200.0	200.0	200.0	200.0	0.3	0.3	7.66	69.8	9.4	70.5	69.9	0.58	120.865	
300.0	300.0	300.3	300.2	0.5	0.5	5.52	69.9	6.8	70.3	69.3	0.93	75.326	
332.9	332.9	333.2	333.1	0.5	0.5	-96.35	70.0	4.7	70.2	69.1	1.07	65.350 CC, ES	
400.0	400.0	399.7	399.3	0.6	0.7	-102.88	70.2	-1.0	70.8	69.4	1.34	52.705	
500.0	499.6	496.7	495.5	0.9	1.0	-117.83	70.7	-13.6	76.4	74.6	1.81	42.327	
600.0	598.8	589.9	587.2	1.1	1.3	-140.75	71.3	-30.3	93.6	91.4	2.25	41.523 SF	
700.0	697.2	678.4	673.4	1.5	1.7	-156.50	72.0	-50.2	124.5	121.9	2.63	47.431	
800.0	794.5	761.1	753.1	1.9	2.1	-166.75	72.8	-72.4	167.4	164.5	2.93	57.062	
900.0	890.5	837.6	825.8	2.4	2.6	-173.49	73.7	-96.0	220.0	216.8	3.20	68.726	
1,000.0	984.9	907.4	891.3	3.1	3.1	-178.12	74.5	-120.0	280.9	277.4	3.44	81.610	
1,100.0	1,077.4	970.4	949.7	3.8	3.5	178.50	75.4	-143.8	348.7	345.0	3.67	95.130	
1,200.0	1,167.9	1,026.7	1,001.1	4.6	4.0	175.87	76.2	-166.6	422.5	418.6	3.87	109.136	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF06E-04 H04 596 (was 07E-04) - DD - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
							+N/-S (ft)	+E/-W (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	4.42	50.6	3.9	50.7				
100.0	100.0	100.0	100.0	0.1	0.1	4.42	50.6	3.9	50.7	50.5	0.23	216.964	
200.0	200.0	200.0	200.0	0.3	0.3	4.42	50.6	3.9	50.7	50.2	0.58	87.045	
300.0	300.0	301.2	301.1	0.5	0.5	1.69	49.5	1.5	49.5	48.6	0.93	52.991	
400.0	400.0	401.5	401.2	0.6	0.7	-110.20	46.3	-5.8	47.5	46.1	1.34	35.326	
412.1	412.0	413.6	413.1	0.7	0.7	-112.49	45.7	-7.0	47.4	46.0	1.40	33.793 CC, ES	
500.0	499.6	499.6	498.4	0.9	1.0	-132.71	41.1	-17.5	51.1	49.3	1.82	28.161 SF	
600.0	598.8	594.2	591.4	1.1	1.3	-161.49	34.1	-33.1	68.7	66.4	2.24	30.663	
700.0	697.2	687.8	683.0	1.5	1.7	-178.05	26.3	-50.6	98.8	96.2	2.58	38.294	
800.0	794.5	779.8	773.1	1.9	2.0	173.30	18.7	-67.8	136.1	133.2	2.91	46.711	
900.0	890.5	869.9	861.2	2.4	2.4	168.46	11.2	-84.7	178.8	175.6	3.26	54.781	
1,000.0	984.9	957.8	947.3	3.1	2.7	165.58	3.9	-101.1	226.2	222.6	3.63	62.268	
1,100.0	1,077.4	1,043.4	1,031.1	3.8	3.1	163.76	-3.2	-117.1	277.9	273.8	4.02	69.168	
1,200.0	1,167.9	1,126.4	1,112.4	4.6	3.4	162.54	-10.1	-132.6	333.6	329.2	4.42	75.526	
1,300.0	1,256.1	1,206.6	1,190.8	5.5	3.7	161.66	-16.8	-147.6	393.4	388.5	4.83	81.379	
1,400.0	1,341.6	1,283.7	1,266.3	6.6	4.0	160.97	-23.2	-162.0	456.9	451.7	5.27	86.735	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07A-04 H04 596 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	9.94	98.2	17.2	99.7				
100.0	100.0	100.0	100.0	0.1	0.1	9.94	98.2	17.2	99.7	99.4	0.23	426.114	
200.0	200.0	200.0	200.0	0.3	0.3	9.94	98.2	17.2	99.7	99.1	0.58	170.956	
300.0	300.0	300.0	300.0	0.5	0.5	9.94	98.2	17.2	99.7	98.7	0.93	106.928 CC	
325.3	325.3	325.3	325.3	0.5	0.5	-90.15	98.2	17.2	99.7	98.6	1.02	97.536	
400.0	400.0	400.0	400.0	0.6	0.6	-91.56	98.2	17.2	99.7	98.4	1.29	77.433 ES	
500.0	499.6	496.2	496.2	0.9	0.8	-96.84	99.9	15.5	101.9	100.2	1.67	60.982	
600.0	598.8	593.2	592.9	1.1	1.0	-113.15	103.8	9.7	109.7	107.6	2.11	51.992	
700.0	697.2	686.6	685.7	1.5	1.2	-127.75	108.2	-0.6	126.2	123.6	2.57	49.052 SF	
800.0	794.5	775.3	773.1	1.9	1.5	-140.08	112.9	-14.4	153.7	150.7	3.00	51.201	
900.0	890.5	862.4	858.4	2.4	1.8	-149.79	118.0	-31.0	192.1	188.8	3.36	57.134	
1,000.0	984.9	948.3	942.6	3.1	2.1	-156.78	123.0	-47.5	238.1	234.5	3.67	64.816	
1,100.0	1,077.4	1,031.4	1,024.0	3.8	2.4	-161.78	127.9	-63.5	290.3	286.3	3.95	73.485	
1,200.0	1,167.9	1,111.6	1,102.5	4.6	2.7	-165.44	132.6	-79.0	347.8	343.6	4.20	82.786	
1,300.0	1,256.1	1,188.5	1,177.9	5.5	3.0	-168.18	137.1	-93.8	410.1	405.7	4.43	92.552	
1,400.0	1,341.6	1,262.1	1,250.0	6.6	3.3	-170.29	141.4	-108.0	476.8	472.1	4.64	102.712	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07B-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	15.90	76.9	21.9	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	15.90	76.9	21.9	80.0	79.7	0.23	341.934		
200.0	200.0	200.0	200.0	0.3	0.3	15.90	76.9	21.9	80.0	79.4	0.58	137.183 CC, ES		
300.0	300.0	298.6	298.6	0.5	0.5	17.62	77.0	24.4	80.8	79.9	0.93	86.888		
400.0	400.0	397.0	396.6	0.6	0.7	-79.13	77.3	32.0	83.2	81.8	1.33	62.581		
500.0	499.6	495.0	493.9	0.9	1.0	-76.33	77.7	44.6	86.8	85.0	1.80	48.246		
600.0	598.8	592.8	590.0	1.1	1.3	-80.94	78.3	62.1	92.5	90.1	2.38	38.839		
700.0	697.2	690.0	684.7	1.5	1.8	-82.75	79.0	84.4	101.1	98.0	3.10	32.601		
800.0	794.5	786.7	777.5	1.9	2.3	-83.74	80.0	111.3	112.5	108.5	3.97	28.300		
900.0	890.5	882.7	868.2	2.4	2.9	-84.49	81.0	142.6	126.5	121.5	5.01	25.243		
1,000.0	984.9	977.9	956.6	3.1	3.6	-85.17	82.2	178.1	143.2	137.0	6.22	23.014		
1,100.0	1,077.4	1,072.3	1,042.3	3.8	4.4	-85.82	83.6	217.6	162.5	154.9	7.61	21.353		
1,200.0	1,167.9	1,165.8	1,125.1	4.6	5.3	-86.43	85.1	260.8	184.2	175.1	9.17	20.089		
1,300.0	1,256.1	1,258.3	1,204.9	5.5	6.2	-86.98	86.6	307.5	208.4	197.5	10.91	19.106		
1,400.0	1,341.6	1,352.1	1,283.8	6.6	7.2	-87.60	88.4	358.4	234.6	221.8	12.80	18.328		
1,500.0	1,424.3	1,448.1	1,364.1	7.7	8.3	-89.03	90.2	410.9	261.5	246.6	14.88	17.579		
1,600.0	1,505.9	1,543.9	1,444.3	8.8	9.3	-91.03	92.0	463.3	288.8	271.7	17.03	16.960		
1,700.0	1,587.4	1,639.6	1,524.4	9.9	10.3	-92.70	93.7	515.7	316.3	297.1	19.17	16.496		
1,800.0	1,668.9	1,735.4	1,604.5	11.1	11.4	-94.09	95.5	568.1	344.0	322.7	21.32	16.138		
1,900.0	1,750.4	1,831.2	1,684.7	12.2	12.4	-95.28	97.3	620.5	371.9	348.5	23.46	15.855		
2,000.0	1,831.9	1,926.9	1,764.8	13.3	13.5	-96.31	99.1	672.9	399.9	374.4	25.59	15.627		
2,100.0	1,913.4	2,022.7	1,844.9	14.5	14.5	-97.19	100.9	725.3	428.1	400.4	27.72	15.441		
2,200.0	1,994.9	2,118.5	1,925.1	15.6	15.6	-97.98	102.7	777.7	456.3	426.4	29.85	15.285		
2,300.0	2,076.5	2,214.2	2,005.2	16.8	16.6	-98.66	104.5	830.1	484.6	452.6	31.98	15.154 SF		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07B-04 H04 596 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	8.45	78.9	11.7	79.8					
100.0	100.0	100.0	100.0	0.1	0.1	8.45	78.9	11.7	79.8	79.6	0.23	341.221		
200.0	200.0	200.0	200.0	0.3	0.3	8.45	78.9	11.7	79.8	79.2	0.58	136.897		
300.0	300.0	300.0	300.0	0.5	0.5	8.45	78.9	11.7	79.8	78.9	0.93	85.625 CC		
311.9	311.9	311.9	311.9	0.5	0.5	-91.57	78.9	11.7	79.8	78.8	0.97	81.897		
400.0	400.0	399.5	399.5	0.6	0.6	-92.95	79.0	12.4	80.1	78.8	1.29	62.216 ES		
500.0	499.6	498.9	498.8	0.9	0.8	-95.73	79.6	16.2	81.6	80.0	1.68	48.667		
600.0	598.8	597.7	597.6	1.1	1.0	-110.95	80.6	16.3	85.8	83.7	2.10	40.794		
700.0	697.2	693.9	693.6	1.5	1.2	-126.54	81.8	11.5	96.9	94.4	2.54	38.153 SF		
800.0	794.5	786.0	785.3	1.9	1.4	-140.78	83.3	2.3	118.6	115.7	2.94	40.354		
900.0	890.5	873.1	871.4	2.4	1.6	-151.97	85.0	-10.4	152.1	148.8	3.28	46.390		
1,000.0	984.9	957.2	954.1	3.1	1.8	-160.27	86.8	-26.0	196.1	192.5	3.56	55.137		
1,100.0	1,077.4	1,041.2	1,036.5	3.8	2.1	-166.11	88.7	-42.0	247.2	243.4	3.81	64.946		
1,200.0	1,167.9	1,122.2	1,116.0	4.6	2.4	-170.17	90.5	-57.6	303.8	299.7	4.04	75.284		
1,300.0	1,256.1	1,200.2	1,192.5	5.5	2.6	-173.10	92.2	-72.5	365.2	361.0	4.25	85.979		
1,400.0	1,341.6	1,274.8	1,265.7	6.6	2.9	-175.30	93.9	-86.8	431.0	426.6	4.45	96.959		



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07C-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	15.89	57.7	16.4	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	15.89	57.7	16.4	60.0	59.7	0.23	256.464		
200.0	200.0	200.0	200.0	0.3	0.3	15.89	57.7	16.4	60.0	59.4	0.58	102.893 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	18.25	57.6	19.0	60.7	59.7	0.93	65.197		
400.0	400.0	398.0	397.6	0.6	0.7	-77.30	57.4	26.7	62.7	61.4	1.33	47.083		
500.0	499.6	496.5	495.3	0.9	1.0	-73.42	57.1	39.4	65.8	64.0	1.80	36.507		
600.0	598.8	594.8	592.0	1.1	1.3	-77.16	56.6	57.1	70.8	68.4	2.38	29.709		
700.0	697.2	692.6	687.1	1.5	1.8	-78.42	56.0	79.6	78.4	75.3	3.09	25.330		
800.0	794.5	789.9	780.6	1.9	2.3	-79.13	55.3	106.8	88.5	84.5	3.96	22.353		
900.0	890.5	886.6	871.9	2.4	2.9	-79.82	54.4	138.5	101.0	96.0	4.99	20.239		
1,000.0	984.9	982.7	960.9	3.1	3.6	-80.57	53.4	174.5	115.8	109.6	6.20	18.684		
1,100.0	1,077.4	1,078.0	1,047.4	3.8	4.4	-81.37	52.3	214.6	133.0	125.4	7.59	17.512		
1,200.0	1,167.9	1,172.5	1,131.0	4.6	5.3	-82.17	51.2	258.6	152.3	143.1	9.17	16.610		
1,300.0	1,256.1	1,266.2	1,211.7	5.5	6.3	-82.93	49.9	306.3	173.8	162.8	10.93	15.898		
1,400.0	1,341.6	1,361.5	1,291.7	6.6	7.3	-83.84	48.5	358.1	197.0	184.2	12.86	15.318		
1,500.0	1,424.3	1,458.4	1,372.7	7.7	8.4	-85.74	47.0	411.2	220.5	205.5	14.99	14.708		
1,600.0	1,505.9	1,555.1	1,453.5	8.8	9.4	-88.10	45.6	464.2	244.3	227.1	17.20	14.204		
1,700.0	1,587.4	1,651.7	1,534.4	9.9	10.5	-90.05	44.2	517.1	268.5	249.1	19.40	13.837		
1,800.0	1,668.9	1,748.4	1,615.2	11.1	11.5	-91.67	42.8	570.1	292.9	271.3	21.60	13.562		
1,900.0	1,750.4	1,845.1	1,696.1	12.2	12.6	-93.05	41.3	623.1	317.5	293.7	23.78	13.350		
2,000.0	1,831.9	1,941.7	1,776.9	13.3	13.7	-94.23	39.9	676.1	342.2	316.2	25.96	13.182		
2,100.0	1,913.4	2,038.4	1,857.8	14.5	14.7	-95.25	38.5	729.0	367.0	338.9	28.13	13.048		
2,200.0	1,994.9	2,135.1	1,938.6	15.6	15.8	-96.14	37.0	782.0	392.0	361.7	30.30	12.938		
2,300.0	2,076.5	2,231.7	2,019.5	16.8	16.9	-96.92	35.6	835.0	417.0	384.6	32.46	12.847		
2,400.0	2,158.0	2,328.4	2,100.3	17.9	17.9	-97.62	34.2	887.9	442.1	407.5	34.62	12.771		
2,500.0	2,239.5	2,425.1	2,181.2	19.0	19.0	-98.24	32.8	940.9	467.2	430.5	36.77	12.707		
2,600.0	2,321.0	2,521.7	2,262.0	20.2	20.0	-98.80	31.3	993.9	492.4	453.5	38.92	12.652 SF		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07C-04 H04 596 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	5.98	59.7	6.3	60.0				
100.0	100.0	100.0	100.0	0.1	0.1	5.98	59.7	6.3	60.0	59.8	0.23	256.691	
200.0	200.0	200.0	200.0	0.3	0.3	5.98	59.7	6.3	60.0	59.5	0.58	102.984	
300.0	300.0	300.0	300.0	0.5	0.5	5.98	59.7	6.3	60.0	59.1	0.93	64.413	
381.5	381.5	381.9	381.8	0.6	0.6	-97.33	59.6	4.5	59.9	58.7	1.23	48.821 CC	
400.0	400.0	400.3	400.3	0.6	0.6	-98.99	59.5	3.6	60.0	58.7	1.29	46.319 ES	
500.0	499.6	499.0	498.6	0.9	0.9	-113.12	58.9	-4.1	62.4	60.7	1.71	36.484	
600.0	598.8	594.7	593.5	1.1	1.1	-138.11	57.9	-16.4	74.2	72.1	2.15	34.587 SF	
700.0	697.2	687.3	684.7	1.5	1.4	-156.43	56.6	-32.4	99.5	97.0	2.51	39.584	
800.0	794.5	779.2	775.0	1.9	1.7	-167.76	55.2	-49.3	134.6	131.7	2.83	47.608	
900.0	890.5	869.0	863.4	2.4	2.0	-174.62	53.9	-65.7	176.3	173.2	3.12	56.603	
1,000.0	984.9	956.6	949.4	3.1	2.4	-178.99	52.6	-81.7	223.6	220.2	3.39	65.889	
1,100.0	1,077.4	1,041.6	1,033.0	3.8	2.7	178.07	51.3	-97.3	275.7	272.0	3.67	75.224	
1,200.0	1,167.9	1,123.8	1,113.8	4.6	3.0	176.01	50.1	-112.3	332.3	328.4	3.93	84.514	
1,300.0	1,256.1	1,203.0	1,191.7	5.5	3.2	174.48	48.9	-126.8	393.2	389.0	4.20	93.708	
1,400.0	1,341.6	1,279.1	1,266.4	6.6	3.5	173.29	47.8	-140.7	458.1	453.7	4.46	102.749	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF07E-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	2.21	40.5	1.6	40.5					
100.0	100.0	100.0	100.0	0.1	0.1	2.21	40.5	1.6	40.5	40.3	0.23	173.202		
200.0	200.0	200.0	200.0	0.3	0.3	2.21	40.5	1.6	40.5	39.9	0.58	69.488		
300.0	300.0	300.0	300.0	0.5	0.5	2.21	40.5	1.6	40.5	39.6	0.93	43.463 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	-101.40	40.5	1.6	40.9	39.7	1.29	31.809		
500.0	499.6	498.5	498.4	0.9	0.8	-108.54	42.1	3.5	44.5	42.8	1.67	26.605		
600.0	598.8	597.9	597.6	1.1	1.0	-120.93	46.5	9.5	53.2	51.1	2.11	25.233		
700.0	697.2	698.8	697.8	1.5	1.3	-127.35	50.4	20.6	64.1	61.5	2.63	24.350		
800.0	794.5	800.0	797.6	1.9	1.6	-130.64	53.0	36.9	76.3	73.0	3.27	23.353		
900.0	890.5	901.5	896.8	2.4	1.9	-132.13	54.3	58.4	89.6	85.5	4.03	22.207		
1,000.0	984.9	1,003.3	995.0	3.1	2.4	-132.53	54.4	85.0	103.9	99.0	4.95	20.976		
1,100.0	1,077.4	1,105.2	1,091.9	3.8	3.0	-132.23	53.1	116.8	119.3	113.3	6.05	19.729		
1,200.0	1,167.9	1,207.4	1,187.1	4.6	3.7	-131.48	50.5	153.6	135.8	128.5	7.33	18.524		
1,300.0	1,256.1	1,309.7	1,280.5	5.5	4.5	-130.44	46.6	195.4	153.3	144.5	8.81	17.399		
1,400.0	1,341.6	1,412.2	1,371.6	6.6	5.4	-129.22	41.5	242.0	171.9	161.4	10.50	16.364		
1,500.0	1,424.3	1,514.8	1,460.2	7.7	6.4	-127.89	35.0	293.3	191.5	179.1	12.41	15.438		
1,600.0	1,505.9	1,617.7	1,546.1	8.8	7.6	-126.03	27.2	349.3	210.2	195.7	14.54	14.460		
1,700.0	1,587.4	1,716.2	1,626.7	9.9	8.7	-123.84	19.1	405.3	227.9	211.1	16.75	13.603		
1,800.0	1,668.9	1,814.3	1,706.9	11.1	9.8	-121.97	11.1	461.2	245.8	226.8	18.98	12.948		
1,900.0	1,750.4	1,912.4	1,787.2	12.2	10.9	-120.36	3.0	517.0	263.9	242.7	21.23	12.431		
2,000.0	1,831.9	2,010.5	1,867.4	13.3	12.1	-118.95	-5.1	572.8	282.2	258.7	23.49	12.017		
2,100.0	1,913.4	2,108.5	1,947.7	14.5	13.2	-117.72	-13.2	628.6	300.7	274.9	25.75	11.678		
2,200.0	1,994.9	2,206.6	2,027.9	15.6	14.3	-116.63	-21.2	684.5	319.2	291.2	28.01	11.396		
2,300.0	2,076.5	2,304.7	2,108.2	16.8	15.5	-115.65	-29.3	740.3	337.9	307.6	30.28	11.159		
2,400.0	2,158.0	2,402.8	2,188.4	17.9	16.6	-114.78	-37.4	796.1	356.7	324.1	32.55	10.957		
2,500.0	2,239.5	2,500.9	2,268.6	19.0	17.7	-114.00	-45.5	852.0	375.5	340.7	34.82	10.784		
2,600.0	2,321.0	2,599.0	2,348.9	20.2	18.9	-113.29	-53.6	907.8	394.4	357.3	37.09	10.633		
2,700.0	2,402.5	2,697.1	2,429.1	21.3	20.0	-112.65	-61.6	963.6	413.3	374.0	39.36	10.501		
2,800.0	2,484.0	2,795.2	2,509.4	22.5	21.1	-112.06	-69.7	1,019.4	432.3	390.7	41.63	10.385		
2,900.0	2,565.5	2,893.2	2,589.6	23.6	22.3	-111.52	-77.8	1,075.3	451.4	407.5	43.90	10.282		
3,000.0	2,647.1	2,991.3	2,669.9	24.8	23.4	-111.03	-85.9	1,131.1	470.4	424.3	46.17	10.189		
3,100.0	2,728.6	3,089.4	2,750.1	25.9	24.6	-110.57	-94.0	1,186.9	489.5	441.1	48.44	10.107 SF		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF10A-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	15.89	19.2	5.5	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	15.89	19.2	5.5	20.0	19.8	0.23	85.488		
200.0	200.0	200.0	200.0	0.3	0.3	15.89	19.2	5.5	20.0	19.4	0.58	34.298 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	23.22	18.7	8.0	20.4	19.4	0.93	21.872		
400.0	400.0	399.3	399.0	0.6	0.7	-63.39	17.2	15.7	22.0	20.7	1.33	16.548		
500.0	499.6	498.6	497.3	0.9	1.0	-52.29	14.7	28.3	24.6	22.8	1.77	13.920		
600.0	598.8	597.5	594.7	1.1	1.3	-51.41	11.3	45.9	28.6	26.3	2.25	12.696		
700.0	697.2	696.2	690.6	1.5	1.8	-51.03	6.9	68.4	34.2	31.4	2.81	12.187		
800.0	794.5	794.5	784.9	1.9	2.3	-51.96	1.6	95.5	41.3	37.8	3.50	11.820		
900.0	890.5	892.3	877.3	2.4	3.0	-53.82	-4.7	127.3	49.7	45.4	4.36	11.413		
1,000.0	984.9	989.8	967.5	3.1	3.7	-56.16	-11.8	163.5	59.4	54.0	5.42	10.954		
1,100.0	1,077.4	1,086.8	1,055.3	3.8	4.5	-58.66	-19.7	203.9	70.4	63.7	6.72	10.487		
1,200.0	1,167.9	1,183.3	1,140.5	4.6	5.4	-61.14	-28.4	248.4	82.8	74.6	8.24	10.052		
1,300.0	1,256.1	1,279.4	1,222.8	5.5	6.4	-63.47	-37.9	296.9	96.6	86.6	9.99	9.670		
1,400.0	1,341.6	1,376.3	1,303.6	6.6	7.5	-65.83	-48.3	349.5	111.4	99.5	11.95	9.321		
1,500.0	1,424.3	1,475.0	1,385.3	7.7	8.6	-69.57	-58.9	403.7	125.4	111.1	14.29	8.777		
1,600.0	1,505.9	1,573.6	1,467.0	8.8	9.7	-73.49	-69.5	457.9	139.3	122.6	16.74	8.321		
1,700.0	1,587.4	1,672.2	1,548.7	9.9	10.8	-76.70	-80.2	512.1	153.8	134.6	19.17	8.020		
1,800.0	1,668.9	1,770.8	1,630.4	11.1	11.9	-79.36	-90.8	566.3	168.6	147.0	21.58	7.815		
1,900.0	1,750.4	1,869.4	1,712.1	12.2	13.0	-81.58	-101.4	620.5	183.8	159.8	23.95	7.672		
2,000.0	1,831.9	1,968.0	1,793.8	13.3	14.1	-83.46	-112.1	674.7	199.1	172.8	26.31	7.569		
2,100.0	1,913.4	2,066.7	1,875.5	14.5	15.2	-85.07	-122.7	728.9	214.7	186.1	28.65	7.495		
2,200.0	1,994.9	2,165.3	1,957.2	15.6	16.3	-86.47	-133.3	783.1	230.4	199.4	30.97	7.440		
2,300.0	2,076.5	2,263.9	2,038.9	16.8	17.4	-87.68	-143.9	837.3	246.2	212.9	33.27	7.400		
2,400.0	2,158.0	2,362.5	2,120.6	17.9	18.5	-88.75	-154.6	891.5	262.1	226.6	35.57	7.369		
2,500.0	2,239.5	2,461.1	2,202.3	19.0	19.6	-89.70	-165.2	945.7	278.1	240.3	37.86	7.346		
2,600.0	2,321.0	2,559.7	2,284.0	20.2	20.7	-90.54	-175.8	999.9	294.2	254.0	40.14	7.329		
2,700.0	2,402.5	2,658.3	2,365.7	21.3	21.8	-91.30	-186.5	1,054.0	310.3	267.9	42.41	7.317		
2,800.0	2,484.0	2,757.0	2,447.4	22.5	23.0	-91.98	-197.1	1,108.2	326.4	281.8	44.67	7.307		
2,900.0	2,565.5	2,855.6	2,529.1	23.6	24.1	-92.60	-207.7	1,162.4	342.6	295.7	46.93	7.300		
3,000.0	2,647.1	2,954.2	2,610.8	24.8	25.2	-93.16	-218.4	1,216.6	358.9	309.7	49.19	7.296		
3,100.0	2,728.6	3,052.8	2,692.5	25.9	26.3	-93.67	-229.0	1,270.8	375.1	323.7	51.44	7.293		
3,200.0	2,810.1	3,151.4	2,774.2	27.1	27.4	-94.14	-239.6	1,325.0	391.4	337.7	53.69	7.291		
3,300.0	2,891.6	3,250.0	2,855.9	28.2	28.5	-94.58	-250.3	1,379.2	407.7	351.8	55.93	7.290		
3,400.0	2,973.1	3,348.7	2,937.6	29.4	29.6	-94.98	-260.9	1,433.4	424.1	365.9	58.18	7.289 SF		
3,500.0	3,054.6	3,447.3	3,019.3	30.5	30.7	-95.35	-271.5	1,487.6	440.4	380.0	60.42	7.290		
3,600.0	3,136.1	3,545.9	3,101.0	31.7	31.8	-95.69	-282.2	1,541.8	456.8	394.2	62.66	7.291		
3,700.0	3,217.6	3,644.5	3,182.7	32.8	33.0	-96.01	-292.8	1,596.0	473.2	408.3	64.89	7.292		
3,800.0	3,299.2	3,743.1	3,264.4	34.0	34.1	-96.31	-303.4	1,650.2	489.6	422.5	67.13	7.294		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF10A-04 H04 596 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-2.85	31.4	-1.6	31.4				
100.0	100.0	100.0	100.0	0.1	0.1	-2.85	31.4	-1.6	31.4	31.2	0.23	134.303	
200.0	200.0	200.0	200.0	0.3	0.3	-2.85	31.4	-1.6	31.4	30.8	0.58	53.882	
300.0	300.0	300.8	300.7	0.5	0.5	-7.20	29.9	-3.8	30.1	29.2	0.93	32.276	
378.6	378.6	379.4	379.2	0.6	0.7	-120.68	26.7	-8.6	28.9	27.6	1.26	22.989	CC, ES
400.0	400.0	400.7	400.3	0.6	0.7	-126.42	25.6	-10.3	29.0	27.7	1.34	21.636	
500.0	499.6	498.5	497.3	0.9	1.0	-156.71	18.5	-21.0	37.4	35.6	1.77	21.096	SF
600.0	598.8	593.1	590.3	1.1	1.3	176.59	9.1	-35.2	60.3	58.1	2.15	28.081	
700.0	697.2	686.2	681.3	1.5	1.7	164.16	-2.0	-51.9	93.4	90.9	2.52	37.135	
800.0	794.5	778.4	771.3	1.9	2.1	158.56	-13.0	-68.5	131.8	128.9	2.92	45.162	
900.0	890.5	868.8	859.5	2.4	2.4	155.82	-23.8	-84.8	174.5	171.1	3.35	52.022	
1,000.0	984.9	957.2	945.9	3.1	2.8	154.43	-34.4	-100.8	221.2	217.4	3.82	57.930	
1,100.0	1,077.4	1,043.4	1,030.0	3.8	3.2	153.70	-44.7	-116.3	271.8	267.5	4.31	63.103	
1,200.0	1,167.9	1,127.1	1,111.7	4.6	3.5	153.31	-54.7	-131.4	326.3	321.5	4.82	67.702	
1,300.0	1,256.1	1,208.1	1,190.7	5.5	3.8	153.08	-64.4	-146.0	384.6	379.2	5.35	71.827	
1,400.0	1,341.6	1,286.1	1,266.9	6.6	4.2	152.90	-73.7	-160.1	446.5	440.6	5.91	75.530	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF10B-03 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	0.0	0.0	0.0	0.0	-10.43	21.3	-3.9	21.6							
100.0	100.0	100.0	100.0	0.1	0.1	-10.43	21.3	-3.9	21.6	21.4	0.23	92.398				
200.0	200.0	200.0	200.0	0.3	0.3	-10.43	21.3	-3.9	21.6	21.0	0.58	37.070				
300.0	300.0	300.0	300.0	0.5	0.5	-10.43	21.3	-3.9	21.6	20.7	0.93	23.186	CC, ES			
400.0	400.0	400.0	400.0	0.6	0.6	-116.61	21.3	-3.9	22.7	21.4	1.29	17.618				
500.0	499.6	499.6	499.6	0.9	0.8	-131.48	21.3	-3.9	27.1	25.4	1.65	16.393				
600.0	598.8	598.8	598.8	1.1	1.0	-152.21	21.3	-3.9	37.5	35.4	2.01	18.659				
700.0	697.2	699.7	699.6	1.5	1.2	-162.98	20.6	-1.4	51.8	49.5	2.35	22.046				
800.0	794.5	801.5	801.1	1.9	1.4	-167.89	18.6	6.4	66.9	64.2	2.70	24.797				
900.0	890.5	904.1	902.8	2.4	1.6	-169.99	15.1	19.5	82.2	79.2	3.05	26.919				
1,000.0	984.9	1,007.4	1,004.4	3.1	2.0	-170.53	10.3	38.0	97.7	94.2	3.43	28.465				
1,100.0	1,077.4	1,111.6	1,105.5	3.8	2.4	-170.13	4.0	62.0	113.3	109.4	3.85	29.441				
1,200.0	1,167.9	1,216.5	1,205.9	4.6	2.9	-169.11	-3.7	91.5	129.0	124.7	4.33	29.809				
1,300.0	1,256.1	1,322.1	1,305.0	5.5	3.6	-167.67	-12.8	126.6	144.9	140.0	4.91	29.531				
1,400.0	1,341.6	1,428.4	1,402.7	6.6	4.4	-165.92	-23.5	167.2	161.1	155.5	5.63	28.618				
1,500.0	1,424.3	1,535.4	1,498.4	7.7	5.3	-163.93	-35.5	213.3	177.6	171.1	6.54	27.145				
1,600.0	1,505.9	1,643.3	1,592.2	8.8	6.3	-161.42	-49.0	265.0	191.5	183.7	7.76	24.664				
1,700.0	1,587.4	1,751.9	1,683.3	9.9	7.5	-158.33	-63.9	322.1	200.9	191.6	9.34	21.512				
1,800.0	1,668.9	1,857.8	1,768.9	11.1	8.7	-154.71	-79.7	382.3	206.4	195.1	11.29	18.279				
1,900.0	1,750.4	1,956.8	1,848.2	12.2	9.9	-151.26	-94.7	439.8	211.5	198.1	13.40	15.776				
2,000.0	1,831.9	2,055.9	1,927.5	13.3	11.1	-147.98	-109.7	497.3	217.3	201.6	15.68	13.859				
2,100.0	1,913.4	2,155.0	2,006.8	14.5	12.3	-144.89	-124.7	554.8	223.8	205.8	18.08	12.378				
2,200.0	1,994.9	2,254.0	2,086.1	15.6	13.4	-141.97	-139.7	612.2	231.0	210.4	20.58	11.223				
2,300.0	2,076.5	2,353.1	2,165.3	16.8	14.6	-139.23	-154.7	669.7	238.7	215.5	23.15	10.311				
2,400.0	2,158.0	2,452.1	2,244.6	17.9	15.8	-136.67	-169.8	727.2	246.9	221.1	25.76	9.583				
2,500.0	2,239.5	2,551.2	2,323.9	19.0	17.0	-134.28	-184.8	784.6	255.6	227.2	28.41	8.995				
2,600.0	2,321.0	2,650.3	2,403.2	20.2	18.2	-132.04	-199.8	842.1	264.7	233.6	31.08	8.515				
2,700.0	2,402.5	2,749.3	2,482.5	21.3	19.4	-129.96	-214.8	899.6	274.2	240.4	33.76	8.120				
2,800.0	2,484.0	2,848.4	2,561.7	22.5	20.6	-128.01	-229.8	957.1	284.0	247.5	36.44	7.792				
2,900.0	2,565.5	2,947.5	2,641.0	23.6	21.8	-126.20	-244.8	1,014.5	294.1	255.0	39.12	7.518				
3,000.0	2,647.1	3,046.5	2,720.3	24.8	23.1	-124.51	-259.9	1,072.0	304.5	262.7	41.79	7.286				
3,100.0	2,728.6	3,145.6	2,799.6	25.9	24.3	-122.92	-274.9	1,129.5	315.1	270.7	44.45	7.089				
3,200.0	2,810.1	3,244.7	2,878.9	27.1	25.5	-121.45	-289.9	1,187.0	326.0	278.9	47.10	6.921				
3,300.0	2,891.6	3,343.7	2,958.1	28.2	26.7	-120.07	-304.9	1,244.4	337.1	287.3	49.74	6.777				
3,400.0	2,973.1	3,442.8	3,037.4	29.4	27.9	-118.77	-319.9	1,301.9	348.3	296.0	52.36	6.652				
3,500.0	3,054.6	3,541.9	3,116.7	30.5	29.1	-117.56	-334.9	1,359.4	359.7	304.8	54.97	6.544				
3,600.0	3,136.1	3,640.9	3,196.0	31.7	30.3	-116.42	-350.0	1,416.8	371.3	313.7	57.57	6.450				
3,700.0	3,217.6	3,740.0	3,275.3	32.8	31.5	-115.35	-365.0	1,474.3	383.0	322.9	60.15	6.368				
3,800.0	3,299.2	3,839.1	3,354.5	34.0	32.7	-114.35	-380.0	1,531.8	394.8	332.1	62.72	6.296				
3,900.0	3,380.7	3,938.1	3,433.8	35.1	33.9	-113.40	-395.0	1,589.3	406.8	341.5	65.27	6.232				
4,000.0	3,462.2	4,037.2	3,513.1	36.2	35.1	-112.51	-410.0	1,646.7	418.8	351.0	67.81	6.176				
4,100.0	3,543.7	4,136.3	3,592.4	37.4	36.3	-111.67	-425.0	1,704.2	431.0	360.6	70.35	6.126				
4,200.0	3,625.2	4,235.3	3,671.7	38.5	37.5	-110.87	-440.1	1,761.7	443.2	370.3	72.87	6.082				
4,300.0	3,706.7	4,334.4	3,750.9	39.7	38.7	-110.11	-455.1	1,819.2	455.5	380.1	75.38	6.043				
4,400.0	3,788.2	4,433.5	3,830.2	40.8	40.0	-109.40	-470.1	1,876.6	467.9	390.0	77.88	6.008				
4,500.0	3,869.8	4,532.5	3,909.5	42.0	41.2	-108.72	-485.1	1,934.1	480.3	400.0	80.37	5.977				
4,600.0	3,951.3	4,631.6	3,988.8	43.1	42.4	-108.08	-500.1	1,991.6	492.8	410.0	82.85	5.949	SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF10C-03 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD		Offset Well Error: 0.0 ft												
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	18.95	9.1	3.1	9.6					
100.0	100.0	100.0	100.0	0.1	0.1	18.95	9.1	3.1	9.6	9.4	0.23	41.189		
141.8	141.8	141.8	141.8	0.2	0.2	18.95	9.1	3.1	9.6	9.3	0.38	25.355 CC		
200.0	200.0	199.9	199.9	0.3	0.3	22.75	9.0	3.8	9.8	9.2	0.58	16.739 ES		
300.0	300.0	299.6	299.4	0.5	0.5	47.70	8.1	8.9	12.0	11.1	0.94	12.847		
400.0	400.0	398.7	398.0	0.6	0.7	-32.16	6.3	19.1	17.9	16.6	1.31	13.645		
500.0	499.6	497.4	495.5	0.9	1.1	-22.58	3.6	34.2	24.8	23.1	1.67	14.829		
600.0	598.8	595.9	591.8	1.1	1.5	-24.55	-0.5	54.0	32.2	30.2	2.05	15.726		
700.0	697.2	693.9	686.6	1.5	2.0	-26.05	-6.4	78.3	40.2	37.7	2.46	16.333		
800.0	794.5	791.5	779.6	1.9	2.5	-27.71	-14.0	107.0	48.5	45.5	2.93	16.556		
900.0	890.5	888.7	870.6	2.4	3.2	-29.53	-23.4	139.9	57.1	53.6	3.49	16.373		
1,000.0	984.9	985.6	959.4	3.1	4.0	-31.46	-34.3	176.9	66.1	61.9	4.18	15.824		
1,100.0	1,077.4	1,082.0	1,045.8	3.8	4.8	-33.45	-46.9	217.9	75.4	70.3	5.02	15.003		
1,200.0	1,167.9	1,178.0	1,129.5	4.6	5.8	-35.45	-61.0	262.7	85.0	78.9	6.06	14.027		
1,300.0	1,256.1	1,273.7	1,210.5	5.5	6.8	-37.43	-76.7	311.1	95.0	87.7	7.31	13.003		
1,400.0	1,341.6	1,371.2	1,290.8	6.6	7.9	-39.64	-93.9	363.8	104.8	96.0	8.81	11.899		
1,500.0	1,424.3	1,470.8	1,372.4	7.7	9.0	-43.24	-111.7	417.9	111.5	100.7	10.80	10.324		
1,600.0	1,505.9	1,570.3	1,454.0	8.8	10.2	-47.11	-129.5	472.1	117.3	104.2	13.09	8.956		
1,700.0	1,587.4	1,669.9	1,535.6	9.9	11.3	-50.61	-147.2	526.2	123.5	108.0	15.48	7.974		
1,800.0	1,668.9	1,769.4	1,617.2	11.1	12.4	-53.76	-165.0	580.3	130.1	112.2	17.94	7.253		
1,900.0	1,750.4	1,868.9	1,698.8	12.2	13.6	-56.60	-182.8	634.5	137.1	116.6	20.43	6.710		
2,000.0	1,831.9	1,968.5	1,780.4	13.3	14.7	-59.17	-200.6	688.6	144.4	121.4	22.94	6.293		
2,100.0	1,913.4	2,068.0	1,862.0	14.5	15.9	-61.48	-218.3	742.8	151.9	126.4	25.46	5.967		
2,200.0	1,994.9	2,167.5	1,943.7	15.6	17.0	-63.57	-236.1	796.9	159.7	131.7	27.98	5.707		
2,300.0	2,076.5	2,267.1	2,025.3	16.8	18.1	-65.46	-253.9	851.1	167.6	137.1	30.49	5.497		
2,400.0	2,158.0	2,366.6	2,106.9	17.9	19.3	-67.19	-271.7	905.2	175.8	142.8	33.00	5.326		
2,500.0	2,239.5	2,466.2	2,188.5	19.0	20.4	-68.75	-289.4	959.3	184.0	148.5	35.50	5.184		
2,600.0	2,321.0	2,565.7	2,270.1	20.2	21.6	-70.19	-307.2	1,013.5	192.4	154.4	37.99	5.066		
2,700.0	2,402.5	2,665.2	2,351.7	21.3	22.7	-71.50	-325.0	1,067.6	200.9	160.5	40.46	4.966		
2,800.0	2,484.0	2,764.8	2,433.3	22.5	23.8	-72.71	-342.8	1,121.8	209.5	166.6	42.93	4.881		
2,900.0	2,565.5	2,864.3	2,514.9	23.6	25.0	-73.82	-360.5	1,175.9	218.2	172.8	45.38	4.809		
3,000.0	2,647.1	2,963.8	2,596.5	24.8	26.1	-74.84	-378.3	1,230.1	227.0	179.2	47.82	4.746		
3,100.0	2,728.6	3,063.4	2,678.1	25.9	27.3	-75.79	-396.1	1,284.2	235.8	185.6	50.26	4.692		
3,200.0	2,810.1	3,162.9	2,759.7	27.1	28.4	-76.67	-413.9	1,338.3	244.7	192.0	52.68	4.645		
3,300.0	2,891.6	3,262.4	2,841.4	28.2	29.6	-77.49	-431.6	1,392.5	253.7	198.6	55.10	4.604		
3,400.0	2,973.1	3,362.0	2,923.0	29.4	30.7	-78.25	-449.4	1,446.6	262.6	205.1	57.51	4.567		
3,500.0	3,054.6	3,461.5	3,004.6	30.5	31.9	-78.97	-467.2	1,500.8	271.7	211.8	59.91	4.535		
3,600.0	3,136.1	3,561.1	3,086.2	31.7	33.0	-79.63	-485.0	1,554.9	280.8	218.5	62.30	4.506		
3,700.0	3,217.6	3,660.6	3,167.8	32.8	34.1	-80.26	-502.7	1,609.1	289.9	225.2	64.69	4.481		
3,800.0	3,299.2	3,760.1	3,249.4	34.0	35.3	-80.84	-520.5	1,663.2	299.0	231.9	67.07	4.458		
3,900.0	3,380.7	3,859.7	3,331.0	35.1	36.4	-81.39	-538.3	1,717.3	308.2	238.7	69.45	4.438		
4,000.0	3,462.2	3,959.2	3,412.6	36.2	37.6	-81.91	-556.1	1,771.5	317.4	245.6	71.82	4.419		
4,100.0	3,543.7	4,058.7	3,494.2	37.4	38.7	-82.40	-573.8	1,825.6	326.6	252.4	74.18	4.403		
4,200.0	3,625.2	4,158.3	3,575.8	38.5	39.9	-82.87	-591.6	1,879.8	335.8	259.3	76.54	4.388		
4,300.0	3,706.7	4,257.8	3,657.4	39.7	41.0	-83.31	-609.4	1,933.9	345.1	266.2	78.90	4.374		
4,400.0	3,788.2	4,357.3	3,739.0	40.8	42.2	-83.72	-627.2	1,988.1	354.4	273.1	81.25	4.361		
4,500.0	3,869.8	4,456.9	3,820.7	42.0	43.3	-84.12	-644.9	2,042.2	363.7	280.1	83.60	4.350		
4,600.0	3,951.3	4,556.4	3,902.3	43.1	44.4	-84.49	-662.7	2,096.4	373.0	287.1	85.95	4.340		
4,700.0	4,032.8	4,655.9	3,983.9	44.3	45.6	-84.85	-680.5	2,150.5	382.3	294.0	88.29	4.330		
4,800.0	4,114.3	4,755.5	4,065.5	45.4	46.7	-85.19	-698.3	2,204.6	391.7	301.0	90.63	4.322		
4,900.0	4,195.8	4,855.0	4,147.1	46.6	47.9	-85.51	-716.0	2,258.8	401.0	308.1	92.97	4.314		
5,000.0	4,277.3	4,954.6	4,228.7	47.7	49.0	-85.82	-733.8	2,312.9	410.4	315.1	95.30	4.306		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												H04 596 Pad - UWF10C-03 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
5,100.0	4,358.8	5,054.1	4,310.3	48.9	50.2	-86.11	-751.6	2,367.1	419.8	322.2	97.63	4.300					
5,200.0	4,440.4	5,153.6	4,391.9	50.0	51.3	-86.40	-769.4	2,421.2	429.2	329.2	99.96	4.293					
5,300.0	4,521.9	5,253.2	4,473.5	51.2	52.5	-86.67	-787.1	2,475.4	438.6	336.3	102.29	4.288					
5,400.0	4,603.4	5,352.7	4,555.1	52.3	53.6	-86.93	-804.9	2,529.5	448.0	343.4	104.62	4.282					
5,500.0	4,684.9	5,452.2	4,636.7	53.5	54.7	-87.17	-822.7	2,583.6	457.4	350.5	106.94	4.277					
5,600.0	4,766.4	5,551.8	4,718.4	54.6	55.9	-87.41	-840.5	2,637.8	466.9	357.6	109.26	4.273					
5,700.0	4,847.9	5,651.3	4,800.0	55.8	57.0	-87.64	-858.2	2,691.9	476.3	364.7	111.58	4.269					
5,800.0	4,929.4	5,750.8	4,881.6	56.9	58.2	-87.86	-876.0	2,746.1	485.7	371.8	113.90	4.265					
5,900.0	5,010.9	5,850.4	4,963.2	58.1	59.3	-88.07	-893.8	2,800.2	495.2	379.0	116.21	4.261 SF					



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF10C-04 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-119.49	-7.1	-12.5	14.4					
100.0	100.0	100.0	100.0	0.1	0.1	-119.49	-7.1	-12.5	14.4	14.1	0.23	61.480		
200.0	200.0	200.0	200.0	0.3	0.3	-119.49	-7.1	-12.5	14.4	13.8	0.58	24.666		
233.3	233.3	233.3	233.3	0.3	0.3	-119.49	-7.1	-12.5	14.4	13.7	0.70	20.561 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	-119.57	-7.3	-12.8	14.7	13.8	0.93	15.803		
400.0	400.0	399.2	399.1	0.6	0.6	144.72	-8.8	-15.1	19.6	18.3	1.28	15.277 SF		
500.0	499.6	497.7	497.5	0.9	0.8	151.37	-11.7	-19.7	31.7	30.0	1.63	19.386		
600.0	598.8	594.7	594.2	1.1	1.0	149.61	-16.1	-26.4	50.7	48.7	2.00	25.388		
700.0	697.2	689.8	688.7	1.5	1.3	150.00	-21.8	-35.1	76.2	73.8	2.38	32.078		
800.0	794.5	782.3	780.3	1.9	1.5	150.63	-28.6	-45.6	108.1	105.3	2.77	38.972		
900.0	890.5	871.8	868.6	2.4	1.8	151.11	-36.4	-57.7	146.2	143.0	3.20	45.742		
1,000.0	984.9	957.8	953.2	3.1	2.1	151.38	-45.1	-71.0	190.4	186.7	3.65	52.173		
1,100.0	1,077.4	1,040.1	1,033.8	3.8	2.5	151.44	-54.4	-85.3	240.3	236.1	4.13	58.128		
1,200.0	1,167.9	1,118.4	1,109.9	4.6	2.8	151.31	-64.1	-100.4	295.6	290.9	4.65	63.521		
1,300.0	1,256.1	1,192.3	1,181.5	5.5	3.1	151.00	-74.2	-115.9	356.0	350.8	5.21	68.273		
1,400.0	1,341.6	1,261.8	1,248.3	6.6	3.5	150.51	-84.4	-131.6	421.2	415.4	5.83	72.306		
1,500.0	1,424.3	1,326.6	1,310.4	7.7	3.8	150.01	-94.6	-147.2	490.9	484.4	6.48	75.706		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> H04 596 Pad - UWF10E-04 H04 596 - DD - Plan #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-139.16	-17.2	-14.9	22.7				
100.0	100.0	100.0	100.0	0.1	0.1	-139.16	-17.2	-14.9	22.7	22.5	0.23	97.185	
200.0	200.0	200.0	200.0	0.3	0.3	-139.16	-17.2	-14.9	22.7	22.1	0.58	38.990	
300.0	300.0	300.0	300.0	0.5	0.5	-139.16	-17.2	-14.9	22.7	21.8	0.93	24.387 CC, ES	
400.0	400.0	398.6	398.6	0.6	0.6	126.24	-18.9	-16.8	26.8	25.5	1.28	20.861 SF	
500.0	499.6	496.0	495.6	0.9	0.9	135.45	-23.8	-22.4	39.6	38.0	1.64	24.115	
600.0	598.8	590.9	589.8	1.1	1.1	135.47	-31.8	-31.5	61.2	59.2	2.03	30.211	
700.0	697.2	682.8	680.2	1.5	1.4	136.55	-42.5	-43.5	90.7	88.3	2.45	37.105	
800.0	794.5	770.7	766.0	1.9	1.8	137.29	-55.4	-58.2	127.8	124.9	2.91	43.893	
900.0	890.5	854.2	846.5	2.4	2.2	137.60	-70.0	-74.8	172.1	168.6	3.43	50.095	
1,000.0	984.9	932.8	921.3	3.1	2.6	137.53	-85.9	-92.8	222.9	218.9	4.01	55.559	
1,100.0	1,077.4	1,011.3	995.1	3.8	3.1	137.33	-103.5	-112.7	279.4	274.8	4.66	60.010	
1,200.0	1,167.9	1,090.7	1,069.8	4.6	3.6	137.29	-121.4	-133.1	339.4	334.0	5.36	63.305	
1,300.0	1,256.1	1,167.6	1,142.0	5.5	4.1	137.26	-138.8	-152.8	402.4	396.3	6.12	65.799	
1,400.0	1,341.6	1,241.5	1,211.5	6.6	4.5	137.17	-155.5	-171.8	468.5	461.6	6.92	67.701	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF12A-03 H04 596 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	15.43	28.3	7.8	29.4					
100.0	100.0	100.0	100.0	0.1	0.1	15.43	28.3	7.8	29.4	29.2	0.23	125.689		
200.0	200.0	200.0	200.0	0.3	0.3	15.43	28.3	7.8	29.4	28.8	0.58	50.426		
300.0	300.0	300.0	300.0	0.5	0.5	15.43	28.3	7.8	29.4	28.5	0.93	31.540		
400.0	400.0	400.0	400.0	0.6	0.6	-89.68	28.3	7.8	29.3	28.0	1.29	22.729		
403.1	403.1	403.1	403.1	0.7	0.6	-90.00	28.3	7.8	29.3	28.0	1.30	22.518	CC, ES	
500.0	499.6	499.6	499.6	0.9	0.8	-104.63	28.3	7.8	30.3	28.6	1.67	18.100		
600.0	598.8	600.3	600.2	1.1	1.0	-128.72	26.9	10.1	34.4	32.3	2.07	16.600	SF	
700.0	697.2	701.5	701.1	1.5	1.2	-145.02	22.7	16.8	40.8	38.3	2.45	16.620		
800.0	794.5	803.2	801.9	1.9	1.5	-156.28	15.5	28.1	48.5	45.7	2.80	17.311		
900.0	890.5	905.4	902.4	2.4	1.8	-164.31	5.5	44.1	57.0	53.9	3.12	18.269		
1,000.0	984.9	1,007.2	1,001.3	3.1	2.2	-170.22	-7.2	64.3	66.2	62.7	3.42	19.361		
1,100.0	1,077.4	1,106.2	1,097.2	3.8	2.6	-174.61	-20.3	85.1	79.5	75.8	3.70	21.484		
1,200.0	1,167.9	1,204.3	1,192.3	4.6	3.1	-177.66	-33.3	105.7	98.2	94.2	3.98	24.643		
1,300.0	1,256.1	1,301.4	1,286.3	5.5	3.5	-179.66	-46.1	126.1	122.1	117.8	4.27	28.578		
1,400.0	1,341.6	1,397.0	1,378.9	6.6	3.9	179.08	-58.8	146.2	151.1	146.5	4.56	33.137		
1,500.0	1,424.3	1,491.1	1,470.0	7.7	4.4	178.31	-71.2	166.0	185.0	180.2	4.85	38.174		
1,600.0	1,505.9	1,584.4	1,560.4	8.8	4.8	178.09	-83.5	185.6	221.0	215.8	5.20	42.528		
1,700.0	1,587.4	1,677.7	1,650.8	9.9	5.2	177.92	-95.9	205.2	257.0	251.4	5.55	46.326		
1,800.0	1,668.9	1,771.0	1,741.2	11.1	5.7	177.80	-108.2	224.8	293.0	287.1	5.90	49.666		
1,900.0	1,750.4	1,864.3	1,831.6	12.2	6.1	177.71	-120.5	244.4	329.0	322.7	6.25	52.627		
2,000.0	1,831.9	1,957.6	1,921.9	13.3	6.5	177.63	-132.9	264.0	365.0	358.4	6.60	55.269		
2,100.0	1,913.4	2,050.9	2,012.3	14.5	7.0	177.57	-145.2	283.6	400.9	394.0	6.96	57.640		
2,200.0	1,994.9	2,144.2	2,102.7	15.6	7.4	177.52	-157.5	303.2	436.9	429.6	7.31	59.780		
2,300.0	2,076.5	2,237.5	2,193.1	16.8	7.8	177.47	-169.9	322.8	472.9	465.3	7.66	61.720		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF12B-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-30.10	12.1	-7.0	14.0					
100.0	100.0	100.0	100.0	0.1	0.1	-30.10	12.1	-7.0	14.0	13.8	0.23	60.028		
200.0	200.0	200.0	200.0	0.3	0.3	-30.10	12.1	-7.0	14.0	13.5	0.58	24.083		
300.0	300.0	300.0	300.0	0.5	0.5	-30.10	12.1	-7.0	14.0	13.1	0.93	15.063 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	-137.31	12.1	-7.0	15.9	14.6	1.28	12.351		
500.0	499.6	500.7	500.7	0.9	0.8	-151.06	10.5	-4.9	19.6	18.0	1.64	11.985 SF		
600.0	598.8	601.6	601.3	1.1	1.0	-170.77	5.6	1.3	24.1	22.1	1.98	12.155		
700.0	697.2	702.7	701.5	1.5	1.3	175.94	-2.6	11.8	29.4	27.1	2.33	12.633		
800.0	794.5	804.0	801.0	1.9	1.6	166.19	-14.0	26.5	35.6	32.9	2.75	12.958		
900.0	890.5	905.5	899.6	2.4	2.1	158.67	-28.8	45.4	42.4	39.1	3.30	12.867		
1,000.0	984.9	1,005.4	995.8	3.1	2.5	153.86	-45.4	66.8	51.2	47.2	3.96	12.906		
1,100.0	1,077.4	1,104.5	1,091.2	3.8	3.0	152.93	-62.0	88.1	64.3	59.7	4.60	13.971		
1,200.0	1,167.9	1,203.0	1,185.9	4.6	3.5	154.08	-78.5	109.2	81.8	76.7	5.16	15.861		
1,300.0	1,256.1	1,300.4	1,279.6	5.5	4.0	156.04	-94.9	130.1	103.9	98.3	5.64	18.437		
1,400.0	1,341.6	1,396.5	1,372.1	6.6	4.5	158.13	-111.0	150.8	130.8	124.7	6.05	21.597		
1,500.0	1,424.3	1,491.2	1,463.2	7.7	5.0	160.13	-126.8	171.1	162.3	155.9	6.43	25.261		
1,600.0	1,505.9	1,585.2	1,553.6	8.8	5.4	162.16	-142.6	191.3	196.0	189.2	6.79	28.853		
1,700.0	1,587.4	1,679.1	1,644.0	9.9	5.9	163.60	-158.3	211.5	229.9	222.7	7.19	31.992		
1,800.0	1,668.9	1,773.1	1,734.4	11.1	6.4	164.67	-174.1	231.6	263.8	256.3	7.59	34.752		
1,900.0	1,750.4	1,867.0	1,824.8	12.2	6.9	165.49	-189.8	251.8	297.9	289.9	8.01	37.194		
2,000.0	1,831.9	1,961.0	1,915.2	13.3	7.3	166.15	-205.6	272.0	331.9	323.5	8.43	39.370		
2,100.0	1,913.4	2,055.0	2,005.6	14.5	7.8	166.69	-221.3	292.2	366.0	357.2	8.86	41.320		
2,200.0	1,994.9	2,148.9	2,096.0	15.6	8.3	167.13	-237.0	312.4	400.1	390.8	9.29	43.077		
2,300.0	2,076.5	2,242.9	2,186.4	16.8	8.8	167.50	-252.8	332.5	434.3	424.5	9.72	44.668		
2,400.0	2,158.0	2,336.8	2,276.9	17.9	9.3	167.82	-268.5	352.7	468.4	458.2	10.16	46.115		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF12C-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-166.94	-10.1	-2.3	10.4					
100.0	100.0	100.0	100.0	0.1	0.1	-166.94	-10.1	-2.3	10.4	10.1	0.23	44.394		
200.0	200.0	200.0	200.0	0.3	0.3	-166.94	-10.1	-2.3	10.4	9.8	0.58	17.811		
300.0	300.0	300.0	300.0	0.5	0.5	-166.94	-10.1	-2.3	10.4	9.5	0.93	11.140 CC		
311.1	311.1	311.1	311.1	0.5	0.5	93.24	-10.1	-2.3	10.4	9.4	0.97	10.691 ES		
400.0	400.0	400.0	400.0	0.6	0.6	106.99	-10.1	-2.3	10.8	9.6	1.29	8.425 SF		
500.0	499.6	499.7	499.7	0.9	0.8	126.71	-11.9	-0.5	14.8	13.1	1.66	8.878		
600.0	598.8	599.6	599.2	1.1	1.0	127.90	-17.3	5.2	21.5	19.4	2.09	10.290		
700.0	697.2	699.6	698.3	1.5	1.3	127.68	-26.3	14.6	29.6	27.0	2.62	11.302		
800.0	794.5	799.6	796.7	1.9	1.6	126.71	-38.9	27.8	38.7	35.4	3.28	11.815		
900.0	890.5	899.8	894.1	2.4	2.0	125.41	-55.0	44.7	48.9	44.8	4.10	11.915		
1,000.0	984.9	999.7	990.0	3.1	2.5	124.15	-74.4	65.1	60.1	55.0	5.09	11.806		
1,100.0	1,077.4	1,098.8	1,084.6	3.8	3.1	125.65	-94.6	86.4	73.4	67.3	6.08	12.071		
1,200.0	1,167.9	1,197.2	1,178.6	4.6	3.6	129.31	-114.7	107.4	89.7	82.7	6.99	12.823		
1,300.0	1,256.1	1,294.8	1,271.8	5.5	4.1	133.77	-134.6	128.3	109.6	101.8	7.79	14.058		
1,400.0	1,341.6	1,391.2	1,363.9	6.6	4.6	138.23	-154.3	149.0	133.6	125.2	8.48	15.761		
1,500.0	1,424.3	1,486.2	1,454.7	7.7	5.1	142.38	-173.7	169.3	162.3	153.2	9.06	17.911		
1,600.0	1,505.9	1,580.5	1,544.8	8.8	5.7	146.27	-193.0	189.5	193.4	183.8	9.56	20.232		
1,700.0	1,587.4	1,674.9	1,634.9	9.9	6.2	149.09	-212.2	209.7	225.0	214.9	10.07	22.336		
1,800.0	1,668.9	1,769.2	1,725.0	11.1	6.7	151.21	-231.5	230.0	257.1	246.5	10.61	24.232		
1,900.0	1,750.4	1,863.6	1,815.1	12.2	7.2	152.86	-250.8	250.2	289.3	278.2	11.16	25.938		
2,000.0	1,831.9	1,957.9	1,905.3	13.3	7.7	154.19	-270.0	270.4	321.8	310.1	11.71	27.475		
2,100.0	1,913.4	2,052.3	1,995.4	14.5	8.2	155.27	-289.3	290.6	354.4	342.1	12.28	28.864		
2,200.0	1,994.9	2,146.6	2,085.5	15.6	8.8	156.17	-308.5	310.8	387.1	374.2	12.85	30.123		
2,300.0	2,076.5	2,241.0	2,175.6	16.8	9.3	156.93	-327.8	331.0	419.8	406.4	13.43	31.268		
2,400.0	2,158.0	2,335.3	2,265.8	17.9	9.8	157.58	-347.0	351.2	452.6	438.6	14.01	32.314		
2,500.0	2,239.5	2,429.7	2,355.9	19.0	10.3	158.14	-366.3	371.4	485.5	470.9	14.59	33.272		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF12E-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.10	-19.2	-5.5	20.0					
100.0	100.0	100.0	100.0	0.1	0.1	-164.10	-19.2	-5.5	20.0	19.8	0.23	85.452		
200.0	200.0	200.0	200.0	0.3	0.3	-164.10	-19.2	-5.5	20.0	19.4	0.58	34.283		
300.0	300.0	300.0	300.0	0.5	0.5	-164.10	-19.2	-5.5	20.0	19.1	0.93	21.443 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	103.21	-19.2	-5.5	20.4	19.1	1.29	15.866		
500.0	499.6	499.6	499.6	0.9	0.8	122.06	-19.2	-5.5	23.5	21.8	1.66	14.145 SF		
600.0	598.8	598.9	598.9	1.1	1.0	134.90	-19.7	-5.1	31.6	29.5	2.04	15.510		
700.0	697.2	698.5	698.3	1.5	1.2	141.82	-23.8	-2.0	43.8	41.3	2.43	18.030		
800.0	794.5	798.3	797.6	1.9	1.4	144.28	-32.0	4.3	58.3	55.5	2.87	20.307		
900.0	890.5	898.5	896.6	2.4	1.7	144.60	-44.4	13.8	74.6	71.2	3.41	21.887		
1,000.0	984.9	998.9	994.8	3.1	2.0	143.84	-61.0	26.4	92.5	88.4	4.08	22.680		
1,100.0	1,077.4	1,099.5	1,092.0	3.8	2.5	142.54	-81.6	42.1	111.7	106.8	4.90	22.783		
1,200.0	1,167.9	1,200.2	1,187.8	4.6	3.0	140.95	-106.4	61.0	132.4	126.5	5.91	22.384		
1,300.0	1,256.1	1,299.6	1,280.7	5.5	3.6	139.37	-134.4	82.4	154.6	147.6	7.08	21.846		
1,400.0	1,341.6	1,396.3	1,370.8	6.6	4.2	138.94	-162.3	103.6	180.1	171.9	8.25	21.842		
1,500.0	1,424.3	1,491.9	1,459.8	7.7	4.8	139.50	-189.8	124.7	209.2	199.9	9.38	22.314		
1,600.0	1,505.9	1,586.9	1,548.4	8.8	5.4	140.93	-217.3	145.6	239.9	229.5	10.44	22.988		
1,700.0	1,587.4	1,681.9	1,636.9	9.9	6.1	142.04	-244.7	166.5	270.8	259.3	11.50	23.543		
1,800.0	1,668.9	1,776.9	1,725.4	11.1	6.7	142.92	-272.1	187.4	301.6	289.1	12.57	24.006		
1,900.0	1,750.4	1,871.9	1,814.0	12.2	7.3	143.64	-299.5	208.3	332.6	319.0	13.63	24.399		
2,000.0	1,831.9	1,966.9	1,902.5	13.3	7.9	144.23	-326.9	229.2	363.6	348.9	14.70	24.736		
2,100.0	1,913.4	2,062.0	1,991.1	14.5	8.6	144.74	-354.3	250.1	394.6	378.8	15.76	25.029		
2,200.0	1,994.9	2,157.0	2,079.6	15.6	9.2	145.17	-381.7	271.0	425.6	408.8	16.83	25.284		
2,300.0	2,076.5	2,252.0	2,168.2	16.8	9.8	145.54	-409.2	291.9	456.7	438.8	17.90	25.510		
2,400.0	2,158.0	2,347.0	2,256.7	17.9	10.5	145.86	-436.6	312.8	487.7	468.8	18.97	25.710		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF13A-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-165.07	-29.3	-7.8	30.4					
100.0	100.0	100.0	100.0	0.1	0.1	-165.07	-29.3	-7.8	30.4	30.1	0.23	129.846		
200.0	200.0	200.0	200.0	0.3	0.3	-165.07	-29.3	-7.8	30.4	29.8	0.58	52.094		
300.0	300.0	300.0	300.0	0.5	0.5	-165.07	-29.3	-7.8	30.4	29.4	0.93	32.583 CC		
400.0	400.0	400.0	400.0	0.6	0.6	99.79	-29.3	-7.8	30.7	29.4	1.29	23.852 ES		
500.0	499.6	499.6	499.6	0.9	0.8	113.25	-29.3	-7.8	33.0	31.3	1.67	19.771		
600.0	598.8	598.5	598.5	1.1	1.0	120.53	-31.5	-6.4	39.4	37.4	2.08	18.998 SF		
700.0	697.2	697.6	697.3	1.5	1.2	126.14	-37.8	-2.1	49.9	47.3	2.54	19.654		
800.0	794.5	796.8	795.6	1.9	1.4	129.18	-48.4	5.0	63.2	60.2	3.09	20.494		
900.0	890.5	896.0	893.1	2.4	1.8	130.41	-63.3	15.0	79.0	75.3	3.76	21.019		
1,000.0	984.9	995.2	989.6	3.1	2.2	130.54	-82.3	27.8	96.9	92.3	4.59	21.130		
1,100.0	1,077.4	1,094.3	1,084.7	3.8	2.6	130.03	-105.4	43.3	116.8	111.2	5.59	20.903		
1,200.0	1,167.9	1,193.2	1,178.1	4.6	3.2	129.13	-132.6	61.6	138.6	131.8	6.77	20.458		
1,300.0	1,256.1	1,291.5	1,269.1	5.5	3.9	128.08	-163.4	82.3	162.2	154.1	8.12	19.973		
1,400.0	1,341.6	1,388.0	1,357.9	6.6	4.5	127.97	-194.7	103.3	188.4	178.9	9.50	19.830		
1,500.0	1,424.3	1,483.4	1,445.8	7.7	5.2	128.90	-225.6	124.2	217.5	206.6	10.86	20.036		
1,600.0	1,505.9	1,578.4	1,533.2	8.8	5.8	130.75	-256.4	144.9	248.0	235.9	12.14	20.434		
1,700.0	1,587.4	1,673.3	1,620.6	9.9	6.5	132.19	-287.2	165.6	278.8	265.3	13.42	20.773		
1,800.0	1,668.9	1,768.3	1,708.0	11.1	7.2	133.35	-318.0	186.3	309.6	294.9	14.70	21.066		
1,900.0	1,750.4	1,863.3	1,795.4	12.2	7.9	134.30	-348.8	207.0	340.6	324.6	15.97	21.319		
2,000.0	1,831.9	1,958.2	1,882.8	13.3	8.5	135.10	-379.6	227.7	371.6	354.3	17.25	21.541		
2,100.0	1,913.4	2,053.2	1,970.2	14.5	9.2	135.77	-410.4	248.4	402.6	384.1	18.52	21.736		
2,200.0	1,994.9	2,148.1	2,057.6	15.6	9.9	136.34	-441.1	269.1	433.8	414.0	19.80	21.909		
2,300.0	2,076.5	2,243.1	2,145.0	16.8	10.6	136.84	-471.9	289.8	464.9	443.8	21.07	22.063		
2,400.0	2,158.0	2,338.0	2,232.4	17.9	11.2	137.27	-502.7	310.5	496.1	473.7	22.35	22.201		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF13B-03 H04 596 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.10	-38.4	-11.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-164.10	-38.4	-11.0	40.0	39.7	0.23	170.905		
200.0	200.0	200.0	200.0	0.3	0.3	-164.10	-38.4	-11.0	40.0	39.4	0.58	68.567		
300.0	300.0	300.0	300.0	0.5	0.5	-164.10	-38.4	-11.0	40.0	39.0	0.93	42.886 CC		
400.0	400.0	400.0	400.0	0.6	0.6	99.59	-38.4	-11.0	40.3	39.0	1.29	31.325 ES		
500.0	499.6	499.1	499.1	0.9	0.8	109.22	-39.0	-10.6	42.7	41.0	1.67	25.564		
600.0	598.8	597.6	597.5	1.1	1.0	111.40	-43.3	-8.0	49.2	47.1	2.10	23.430		
700.0	697.2	696.1	695.4	1.5	1.2	114.67	-52.0	-2.8	59.3	56.7	2.62	22.627		
800.0	794.5	794.5	792.6	1.9	1.5	117.08	-65.0	5.0	72.4	69.1	3.26	22.223		
900.0	890.5	892.6	888.7	2.4	1.9	118.48	-82.2	15.4	88.2	84.2	4.04	21.837		
1,000.0	984.9	990.5	983.3	3.1	2.3	119.10	-103.5	28.2	106.6	101.6	4.99	21.375		
1,100.0	1,077.4	1,088.1	1,076.3	3.8	2.8	119.17	-128.9	43.5	127.4	121.2	6.11	20.852		
1,200.0	1,167.9	1,185.2	1,167.2	4.6	3.4	118.87	-158.2	61.1	150.3	142.9	7.40	20.306		
1,300.0	1,256.1	1,282.0	1,255.9	5.5	4.1	118.33	-191.2	81.0	175.5	166.6	8.86	19.801		
1,400.0	1,341.6	1,378.1	1,343.2	6.6	4.8	118.41	-225.8	101.8	202.8	192.4	10.40	19.498		
1,500.0	1,424.3	1,473.3	1,429.6	7.7	5.5	119.50	-260.0	122.4	232.3	220.3	11.94	19.448 SF		
1,600.0	1,505.9	1,568.1	1,515.6	8.8	6.2	121.59	-294.1	143.0	263.0	249.6	13.43	19.584		
1,700.0	1,587.4	1,662.9	1,601.7	9.9	7.0	123.24	-328.1	163.5	294.0	279.0	14.91	19.718		
1,800.0	1,668.9	1,757.6	1,687.7	11.1	7.7	124.58	-362.2	184.0	325.1	308.7	16.38	19.846		
1,900.0	1,750.4	1,852.4	1,773.7	12.2	8.4	125.68	-396.3	204.5	356.4	338.5	17.85	19.965		
2,000.0	1,831.9	1,947.2	1,859.8	13.3	9.1	126.61	-430.3	225.0	387.8	368.4	19.32	20.074		
2,100.0	1,913.4	2,042.0	1,945.8	14.5	9.8	127.39	-464.4	245.5	419.2	398.4	20.78	20.174		
2,200.0	1,994.9	2,136.7	2,031.8	15.6	10.6	128.07	-498.4	266.0	450.7	428.5	22.24	20.266		
2,300.0	2,076.5	2,231.5	2,117.9	16.8	11.3	128.66	-532.5	286.5	482.3	458.6	23.70	20.350		



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF13C-03 H04 596 - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.69	-48.6	-13.3	50.3					
100.0	100.0	100.0	100.0	0.1	0.1	-164.69	-48.6	-13.3	50.3	50.1	0.23	215.273		
200.0	200.0	200.0	200.0	0.3	0.3	-164.69	-48.6	-13.3	50.3	49.8	0.58	86.367		
300.0	300.0	300.0	300.0	0.5	0.5	-164.69	-48.6	-13.3	50.3	49.4	0.93	54.020 CC		
400.0	400.0	400.0	400.0	0.6	0.6	98.25	-48.6	-13.3	50.7	49.4	1.29	39.350 ES		
500.0	499.6	498.0	498.0	0.9	0.8	104.35	-50.8	-12.1	53.9	52.2	1.67	32.225		
600.0	598.8	595.9	595.5	1.1	1.0	103.36	-57.4	-8.6	61.2	59.1	2.13	28.786		
700.0	697.2	693.5	692.4	1.5	1.3	104.85	-68.4	-2.7	71.8	69.1	2.69	26.675		
800.0	794.5	790.8	788.1	1.9	1.6	106.60	-83.7	5.5	85.4	82.0	3.39	25.173		
900.0	890.5	887.7	882.4	2.4	2.0	108.00	-103.2	15.8	102.0	97.7	4.25	23.987		
1,000.0	984.9	984.0	975.0	3.1	2.5	108.95	-126.7	28.4	121.4	116.1	5.28	23.002		
1,100.0	1,077.4	1,079.8	1,065.5	3.8	3.0	109.50	-154.2	43.0	143.4	137.0	6.47	22.168		
1,200.0	1,167.9	1,174.9	1,153.8	4.6	3.7	109.73	-185.4	59.7	168.0	160.2	7.83	21.456		
1,300.0	1,256.1	1,269.3	1,239.6	5.5	4.4	109.71	-220.1	78.2	195.0	185.6	9.35	20.863		
1,400.0	1,341.6	1,364.6	1,324.9	6.6	5.1	109.98	-257.6	98.2	224.0	213.0	10.98	20.407		
1,500.0	1,424.3	1,459.3	1,409.7	7.7	5.9	111.17	-294.9	118.0	254.6	242.0	12.66	20.121		
1,600.0	1,505.9	1,553.6	1,494.1	8.8	6.6	113.41	-332.0	137.8	286.3	272.0	14.30	20.017		
1,700.0	1,587.4	1,648.0	1,578.5	9.9	7.4	115.21	-369.2	157.6	318.2	302.3	15.94	19.966		
1,800.0	1,668.9	1,742.3	1,662.9	11.1	8.1	116.68	-406.3	177.4	350.4	332.9	17.57	19.946		
1,900.0	1,750.4	1,836.6	1,747.3	12.2	8.9	117.90	-443.4	197.2	382.8	363.6	19.19	19.945 SF		
2,000.0	1,831.9	1,930.9	1,831.8	13.3	9.7	118.93	-480.5	217.0	415.3	394.5	20.81	19.956		
2,100.0	1,913.4	2,025.3	1,916.2	14.5	10.4	119.82	-517.7	236.8	447.9	425.5	22.43	19.973		
2,200.0	1,994.9	2,119.6	2,000.6	15.6	11.2	120.58	-554.8	256.6	480.6	456.6	24.04	19.994		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF13D-03 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-164.10	-57.7	-16.4	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	-164.10	-57.7	-16.4	60.0	59.7	0.23	256.392		
200.0	200.0	200.0	200.0	0.3	0.3	-164.10	-57.7	-16.4	60.0	59.4	0.58	102.864		
300.0	300.0	300.0	300.0	0.5	0.5	-164.10	-57.7	-16.4	60.0	59.0	0.93	64.338 CC		
308.6	308.6	308.6	308.6	0.5	0.5	95.92	-57.7	-16.4	60.0	59.0	0.96	62.308 ES		
400.0	400.0	398.8	398.8	0.6	0.6	97.89	-58.2	-16.1	60.7	59.5	1.29	47.249		
500.0	499.6	496.4	496.3	0.9	0.8	101.34	-62.7	-13.9	65.6	63.9	1.68	39.165		
600.0	598.8	593.6	593.0	1.1	1.0	98.18	-71.6	-9.5	74.3	72.1	2.15	34.612		
700.0	697.2	690.4	688.6	1.5	1.3	98.19	-84.8	-3.0	85.9	83.1	2.74	31.376		
800.0	794.5	786.7	782.9	1.9	1.7	99.12	-102.2	5.7	100.4	96.9	3.48	28.891		
900.0	890.5	882.4	875.5	2.4	2.1	100.19	-123.7	16.4	117.9	113.5	4.38	26.928		
1,000.0	984.9	977.3	966.1	3.1	2.6	101.13	-149.1	29.0	138.1	132.7	5.44	25.368		
1,100.0	1,077.4	1,071.5	1,054.5	3.8	3.2	101.85	-178.3	43.5	161.1	154.4	6.68	24.123		
1,200.0	1,167.9	1,164.9	1,140.4	4.6	3.9	102.35	-211.0	59.8	186.7	178.6	8.07	23.120		
1,300.0	1,256.1	1,257.4	1,223.6	5.5	4.7	102.64	-247.1	77.7	214.8	205.1	9.63	22.308		
1,400.0	1,341.6	1,351.0	1,306.2	6.6	5.4	102.97	-286.7	97.4	245.0	233.7	11.32	21.652		
1,500.0	1,424.3	1,445.4	1,389.2	7.7	6.2	104.11	-326.9	117.3	276.5	263.4	13.10	21.111		
1,600.0	1,505.9	1,539.4	1,471.9	8.8	7.0	106.35	-366.9	137.3	308.7	293.8	14.87	20.757		
1,700.0	1,587.4	1,633.5	1,554.6	9.9	7.8	108.17	-407.0	157.2	341.3	324.6	16.64	20.509		
1,800.0	1,668.9	1,727.5	1,637.4	11.1	8.6	109.68	-447.0	177.1	374.1	355.7	18.40	20.331		
1,900.0	1,750.4	1,821.5	1,720.1	12.2	9.4	110.94	-487.1	197.0	407.1	387.0	20.15	20.199		
2,000.0	1,831.9	1,915.6	1,802.8	13.3	10.3	112.01	-527.1	216.9	440.3	418.4	21.90	20.100		
2,100.0	1,913.4	2,009.6	1,885.5	14.5	11.1	112.94	-567.2	236.8	473.6	449.9	23.65	20.025 SF		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF13E-03 H04 596 - DD - Plan #1												Offset Site Error: 0.0 ft		
Survey Program: 0-MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-164.52	-67.8	-18.8	70.3					
100.0	100.0	100.0	100.0	0.1	0.1	-164.52	-67.8	-18.8	70.3	70.1	0.23	300.740		
200.0	200.0	200.0	200.0	0.3	0.3	-164.52	-67.8	-18.8	70.3	69.8	0.58	120.656		
300.0	300.0	300.0	300.0	0.5	0.5	-164.52	-67.8	-18.8	70.3	69.4	0.93	75.467	CC, ES	
400.0	400.0	397.2	397.2	0.6	0.6	96.16	-70.0	-17.7	72.5	71.3	1.29	56.439		
500.0	499.6	494.1	493.7	0.9	0.8	97.95	-76.7	-14.7	79.2	77.5	1.68	47.048		
600.0	598.8	590.4	589.3	1.1	1.1	93.45	-87.8	-9.6	89.5	87.3	2.17	41.265		
700.0	697.2	686.2	683.5	1.5	1.4	92.51	-103.2	-2.6	102.5	99.8	2.78	36.924		
800.0	794.5	781.2	776.1	1.9	1.8	92.87	-122.6	6.3	118.4	114.9	3.53	33.506		
900.0	890.5	875.5	866.8	2.4	2.3	93.67	-146.0	17.0	137.1	132.7	4.45	30.795		
1,000.0	984.9	968.8	955.2	3.1	2.9	94.56	-173.2	29.4	158.7	153.1	5.54	28.652		
1,100.0	1,077.4	1,061.3	1,041.3	3.8	3.5	95.37	-203.9	43.5	182.9	176.1	6.78	26.957		
1,200.0	1,167.9	1,152.7	1,124.6	4.6	4.2	96.04	-238.0	59.1	209.8	201.6	8.19	25.612		
1,300.0	1,256.1	1,243.0	1,205.2	5.5	4.9	96.55	-275.3	76.1	239.2	229.5	9.75	24.529		
1,400.0	1,341.6	1,334.0	1,284.3	6.6	5.7	96.97	-316.0	94.7	271.0	259.5	11.46	23.654		
1,500.0	1,424.3	1,427.8	1,365.5	7.7	6.6	98.06	-358.8	114.3	303.8	290.5	13.29	22.858		
1,600.0	1,505.9	1,521.3	1,446.3	8.8	7.4	100.29	-401.5	133.8	337.2	322.0	15.15	22.259		
1,700.0	1,587.4	1,614.8	1,527.2	9.9	8.2	102.13	-444.2	153.3	371.0	354.0	17.00	21.818		
1,800.0	1,668.9	1,708.3	1,608.1	11.1	9.1	103.66	-486.9	172.9	405.0	386.2	18.85	21.486		
1,900.0	1,750.4	1,801.9	1,689.0	12.2	9.9	104.95	-529.6	192.4	439.3	418.6	20.69	21.229		
2,000.0	1,831.9	1,895.4	1,769.8	13.3	10.8	106.06	-572.3	211.9	473.8	451.2	22.53	21.026	SF	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> H04 596 Pad - UWF14C-04 H04 596 (was 15C-04) - DD - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-153.51	-45.5	-22.7	50.9					
100.0	100.0	100.0	100.0	0.1	0.1	-153.51	-45.5	-22.7	50.9	50.6	0.23	217.494		
200.0	200.0	200.0	200.0	0.3	0.3	-153.51	-45.5	-22.7	50.9	50.3	0.58	87.258		
300.0	300.0	300.0	300.0	0.5	0.5	-153.51	-45.5	-22.7	50.9	49.9	0.93	54.577 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	109.24	-45.5	-22.7	51.7	50.4	1.29	40.158		
500.0	499.6	499.0	499.0	0.9	0.8	116.79	-45.7	-22.7	54.9	53.2	1.66	33.006		
600.0	598.8	595.4	595.3	1.1	1.0	118.80	-49.2	-23.7	64.3	62.2	2.07	31.021 SF		
700.0	697.2	690.1	689.6	1.5	1.2	123.14	-57.0	-26.4	81.1	78.6	2.52	32.173		
800.0	794.5	782.7	781.4	1.9	1.4	126.80	-68.7	-31.1	105.5	102.4	3.02	34.875		
900.0	890.5	872.6	869.8	2.4	1.7	129.20	-83.8	-37.5	136.9	133.3	3.60	38.023		
1,000.0	984.9	959.4	954.3	3.1	2.1	130.54	-101.9	-45.5	174.9	170.6	4.26	41.024		
1,100.0	1,077.4	1,042.7	1,034.4	3.8	2.5	131.12	-122.6	-54.7	219.0	214.0	5.02	43.640		
1,200.0	1,167.9	1,122.1	1,109.9	4.6	2.9	131.17	-145.1	-64.9	268.7	262.8	5.86	45.822		
1,300.0	1,256.1	1,200.0	1,182.8	5.5	3.4	130.85	-170.0	-76.2	323.6	316.8	6.81	47.540		
1,400.0	1,341.6	1,268.9	1,246.3	6.6	3.8	130.12	-194.2	-87.3	383.3	375.4	7.84	48.907		
1,500.0	1,424.3	1,336.0	1,307.3	7.7	4.3	129.36	-219.7	-99.1	447.4	438.4	8.95	50.010		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15A-04 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-145.62	-26.3	-18.0	31.9					
100.0	100.0	100.0	100.0	0.1	0.1	-145.62	-26.3	-18.0	31.9	31.6	0.23	136.244		
200.0	200.0	200.0	200.0	0.3	0.3	-145.62	-26.3	-18.0	31.9	31.3	0.58	54.661		
300.0	300.0	300.0	300.0	0.5	0.5	-145.62	-26.3	-18.0	31.9	30.9	0.93	34.189 CC, ES		
400.0	400.0	400.0	400.0	0.6	0.6	118.48	-26.3	-18.0	33.0	31.7	1.29	25.689		
500.0	499.6	499.6	499.6	0.9	0.8	128.98	-26.3	-18.0	37.4	35.8	1.66	22.607 SF		
600.0	598.8	596.7	596.7	1.1	1.0	133.26	-28.4	-19.2	48.2	46.1	2.04	23.644		
700.0	697.2	692.3	692.0	1.5	1.2	137.34	-34.7	-22.7	67.1	64.7	2.44	27.487		
800.0	794.5	785.6	784.5	1.9	1.4	139.45	-44.9	-28.4	93.7	90.8	2.90	32.355		
900.0	890.5	876.0	873.6	2.4	1.7	140.18	-58.5	-36.1	127.2	123.7	3.42	37.205		
1,000.0	984.9	963.1	958.6	3.1	2.0	140.11	-75.0	-45.4	167.1	163.1	4.02	41.534		
1,100.0	1,077.4	1,046.4	1,039.0	3.8	2.4	139.59	-94.0	-56.0	213.1	208.4	4.72	45.177		
1,200.0	1,167.9	1,125.7	1,114.6	4.6	2.8	138.77	-114.9	-67.7	264.7	259.2	5.50	48.144		
1,300.0	1,256.1	1,200.0	1,184.4	5.5	3.3	137.72	-136.9	-80.1	321.5	315.2	6.36	50.536		
1,400.0	1,341.6	1,273.7	1,252.7	6.6	3.7	136.56	-161.0	-93.6	383.2	375.8	7.33	52.297		
1,500.0	1,424.3	1,349.4	1,322.7	7.7	4.2	135.80	-186.3	-107.9	448.1	439.7	8.36	53.616		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15B-03 H04 596 (was 10E-03) - DD - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-77.83	2.0	-9.4	9.6						
100.0	100.0	100.0	100.0	0.1	0.1	-77.83	2.0	-9.4	9.6	9.4	0.23	41.058			
200.0	200.0	200.0	200.0	0.3	0.3	-77.83	2.0	-9.4	9.6	9.0	0.58	16.472			
300.0	300.0	300.0	300.0	0.5	0.5	-77.83	2.0	-9.4	9.6	8.7	0.93	10.303 CC, ES			
400.0	400.0	400.2	400.2	0.6	0.6	-179.34	1.7	-8.8	11.6	10.3	1.28	9.057			
500.0	499.6	500.8	500.7	0.9	0.8	173.30	-1.0	-4.2	14.6	13.0	1.63	8.959			
600.0	598.8	601.5	600.7	1.1	1.1	158.87	-6.3	4.9	18.1	16.1	2.01	8.998			
700.0	697.2	702.2	700.2	1.5	1.4	150.38	-14.3	18.6	21.7	19.3	2.47	8.800			
800.0	794.5	803.1	798.9	1.9	1.8	144.78	-25.0	36.8	25.4	22.3	3.05	8.332			
900.0	890.5	904.1	896.3	2.4	2.3	140.80	-38.3	59.5	29.0	25.2	3.78	7.685			
1,000.0	984.9	1,005.1	992.3	3.1	2.8	137.84	-54.1	86.7	32.6	27.9	4.67	6.971			
1,100.0	1,077.4	1,106.3	1,086.7	3.8	3.5	135.54	-72.6	118.2	36.1	30.3	5.75	6.270			
1,200.0	1,167.9	1,207.5	1,179.0	4.6	4.3	133.72	-93.5	154.0	39.4	32.4	7.01	5.624			
1,300.0	1,256.1	1,308.9	1,269.1	5.5	5.2	132.23	-117.0	194.1	42.7	34.2	8.46	5.048			
1,400.0	1,341.6	1,410.3	1,356.6	6.6	6.2	131.00	-142.8	238.2	45.8	35.7	10.08	4.543			
1,500.0	1,424.3	1,511.8	1,441.5	7.7	7.3	129.97	-170.9	286.4	48.8	36.9	11.89	4.101			
1,600.0	1,505.9	1,613.3	1,523.2	8.8	8.5	126.48	-201.3	338.3	49.8	35.6	14.28	3.491			
1,700.0	1,587.4	1,713.7	1,601.2	9.9	9.8	118.55	-233.2	392.9	48.9	31.3	17.53	2.788			
1,768.4	1,643.1	1,781.9	1,653.9	10.7	10.6	112.59	-255.1	430.2	48.6	28.8	19.84	2.450			
1,800.0	1,668.9	1,813.5	1,678.3	11.1	11.0	109.82	-265.2	447.5	48.7	27.8	20.89	2.329			
1,900.0	1,750.4	1,913.2	1,755.4	12.2	12.3	101.21	-297.1	502.1	49.6	25.5	24.04	2.062			
2,000.0	1,831.9	2,012.9	1,832.5	13.3	13.5	93.09	-329.0	556.7	51.6	24.8	26.82	1.924			
2,100.0	1,913.4	2,112.6	1,909.6	14.5	14.8	85.70	-361.0	611.3	54.5	25.4	29.14	1.871			
2,200.0	1,994.9	2,212.4	1,986.7	15.6	16.0	79.17	-392.9	665.9	58.3	27.2	31.06	1.877			
2,300.0	2,076.5	2,312.1	2,063.7	16.8	17.3	73.48	-424.9	720.6	62.7	30.1	32.62	1.922			
2,400.0	2,158.0	2,411.8	2,140.8	17.9	18.6	68.59	-456.8	775.2	67.7	33.7	33.93	1.994			
2,500.0	2,239.5	2,511.5	2,217.9	19.0	19.8	64.39	-488.7	829.8	73.0	38.0	35.06	2.084			
2,600.0	2,321.0	2,611.2	2,295.0	20.2	21.1	60.77	-520.7	884.4	78.8	42.7	36.06	2.184			
2,700.0	2,402.5	2,711.0	2,372.1	21.3	22.4	57.66	-552.6	939.0	84.7	47.8	36.97	2.292			
2,800.0	2,484.0	2,810.7	2,449.2	22.5	23.6	54.96	-584.5	993.6	91.0	53.1	37.83	2.404			
2,900.0	2,565.5	2,910.4	2,526.3	23.6	24.9	52.62	-616.5	1,048.2	97.3	58.7	38.66	2.517			
3,000.0	2,647.1	3,010.1	2,603.3	24.8	26.2	50.56	-648.4	1,102.8	103.9	64.4	39.47	2.631			
3,100.0	2,728.6	3,109.9	2,680.4	25.9	27.4	48.75	-680.3	1,157.4	110.5	70.2	40.27	2.744			
3,200.0	2,810.1	3,209.6	2,757.5	27.1	28.7	47.14	-712.3	1,212.0	117.2	76.2	41.07	2.854			
3,300.0	2,891.6	3,309.3	2,834.6	28.2	30.0	45.71	-744.2	1,266.7	124.1	82.2	41.87	2.963			
3,400.0	2,973.1	3,409.0	2,911.7	29.4	31.2	44.43	-776.1	1,321.3	130.9	88.3	42.67	3.069			
3,500.0	3,054.6	3,508.7	2,988.8	30.5	32.5	43.28	-808.1	1,375.9	137.9	94.4	43.48	3.172			
3,600.0	3,136.1	3,608.5	3,065.9	31.7	33.8	42.24	-840.0	1,430.5	144.9	100.6	44.29	3.271			
3,700.0	3,217.6	3,708.2	3,143.0	32.8	35.0	41.29	-872.0	1,485.1	151.9	106.8	45.10	3.368			
3,800.0	3,299.2	3,807.9	3,220.0	34.0	36.3	40.43	-903.9	1,539.7	159.0	113.1	45.93	3.462			
3,900.0	3,380.7	3,907.6	3,297.1	35.1	37.6	39.65	-935.8	1,594.3	166.1	119.4	46.76	3.553			
4,000.0	3,462.2	4,007.4	3,374.2	36.2	38.8	38.92	-967.8	1,648.9	173.3	125.7	47.59	3.640			
4,100.0	3,543.7	4,107.1	3,451.3	37.4	40.1	38.26	-999.7	1,703.5	180.4	132.0	48.43	3.725			
4,200.0	3,625.2	4,206.8	3,528.4	38.5	41.4	37.64	-1,031.6	1,758.1	187.6	138.3	49.28	3.807			
4,300.0	3,706.7	4,306.5	3,605.5	39.7	42.7	37.07	-1,063.6	1,812.8	194.8	144.7	50.13	3.886			
4,400.0	3,788.2	4,406.2	3,682.6	40.8	43.9	36.55	-1,095.5	1,867.4	202.0	151.0	50.98	3.963			
4,500.0	3,869.8	4,506.0	3,759.6	42.0	45.2	36.05	-1,127.4	1,922.0	209.3	157.4	51.85	4.037			
4,600.0	3,951.3	4,605.7	3,836.7	43.1	46.5	35.59	-1,159.4	1,976.6	216.5	163.8	52.71	4.108			
4,700.0	4,032.8	4,705.4	3,913.8	44.3	47.7	35.16	-1,191.3	2,031.2	223.8	170.2	53.58	4.177			
4,800.0	4,114.3	4,805.1	3,990.9	45.4	49.0	34.76	-1,223.3	2,085.8	231.1	176.6	54.45	4.244			
4,900.0	4,195.8	4,904.9	4,068.0	46.6	50.3	34.38	-1,255.2	2,140.4	238.4	183.0	55.33	4.308			
5,000.0	4,277.3	5,004.6	4,145.1	47.7	51.5	34.03	-1,287.1	2,195.0	245.7	189.5	56.21	4.371			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15B-03 H04 596 (was 10E-03) - DD - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,358.8	5,104.3	4,222.2	48.9	52.8	33.69	-1,319.1	2,249.6	253.0	195.9	57.09	4.431		
5,200.0	4,440.4	5,204.0	4,299.3	50.0	54.1	33.38	-1,351.0	2,304.2	260.3	202.3	57.98	4.489		
5,300.0	4,521.9	5,303.7	4,376.3	51.2	55.4	33.08	-1,382.9	2,358.8	267.6	208.7	58.87	4.546		
5,400.0	4,603.4	5,403.5	4,453.4	52.3	56.6	32.80	-1,414.9	2,413.5	274.9	215.2	59.76	4.601		
5,500.0	4,684.9	5,503.2	4,530.5	53.5	57.9	32.53	-1,446.8	2,468.1	282.3	221.6	60.65	4.654		
5,600.0	4,766.4	5,602.9	4,607.6	54.6	59.2	32.27	-1,478.7	2,522.7	289.6	228.1	61.55	4.706		
5,700.0	4,847.9	5,702.6	4,684.7	55.8	60.4	32.03	-1,510.7	2,577.3	297.0	234.5	62.45	4.756		
5,800.0	4,929.4	5,802.3	4,761.8	56.9	61.7	31.80	-1,542.6	2,631.9	304.3	241.0	63.35	4.804		
5,900.0	5,010.9	5,902.1	4,838.9	58.1	63.0	31.58	-1,574.5	2,686.5	311.7	247.4	64.25	4.851		
6,000.0	5,092.5	6,001.8	4,915.9	59.2	64.2	31.37	-1,606.5	2,741.1	319.0	253.9	65.15	4.897		
6,100.0	5,174.0	6,101.5	4,993.0	60.4	65.5	31.17	-1,638.4	2,795.7	326.4	260.4	66.06	4.941		
6,200.0	5,255.5	6,201.2	5,070.1	61.5	66.8	30.98	-1,670.4	2,850.3	333.8	266.8	66.97	4.984		
6,300.0	5,337.0	6,301.0	5,147.2	62.7	68.1	30.80	-1,702.3	2,904.9	341.2	273.3	67.88	5.026		
6,400.0	5,418.5	6,400.7	5,224.3	63.8	69.3	30.62	-1,734.2	2,959.6	348.5	279.7	68.79	5.067		
6,500.0	5,500.0	6,500.4	5,301.4	65.0	70.6	30.46	-1,766.2	3,014.2	355.9	286.2	69.70	5.107		
6,600.0	5,581.5	6,600.1	5,378.5	66.1	71.9	30.30	-1,798.1	3,068.8	363.3	292.7	70.61	5.145		
6,700.0	5,663.1	6,699.8	5,455.6	67.3	73.1	30.14	-1,830.0	3,123.4	370.7	299.2	71.53	5.183		
6,800.0	5,744.6	6,799.6	5,532.6	68.4	74.4	29.99	-1,862.0	3,178.0	378.1	305.6	72.44	5.219		
6,900.0	5,826.1	6,899.3	5,609.7	69.6	75.7	29.85	-1,893.9	3,232.6	385.5	312.1	73.36	5.255		
7,000.0	5,907.6	6,999.0	5,686.8	70.7	76.9	29.71	-1,925.8	3,287.2	392.9	318.6	74.28	5.289		
7,100.0	5,989.1	7,098.7	5,763.9	71.9	78.2	29.58	-1,957.8	3,341.8	400.3	325.1	75.19	5.323		
7,200.0	6,070.6	7,198.5	5,841.0	73.0	79.5	29.45	-1,989.7	3,396.4	407.7	331.5	76.11	5.356		
7,300.0	6,152.1	7,298.2	5,918.1	74.2	80.8	29.33	-2,021.7	3,451.0	415.1	338.0	77.04	5.388		
7,400.0	6,233.7	7,397.9	5,995.2	75.3	82.0	29.21	-2,053.6	3,505.6	422.5	344.5	77.96	5.419		
7,500.0	6,315.2	7,497.6	6,072.2	76.5	83.3	29.10	-2,085.5	3,560.3	429.9	351.0	78.88	5.450		
7,600.0	6,396.7	7,597.3	6,149.3	77.6	84.6	28.99	-2,117.5	3,614.9	437.3	357.5	79.80	5.479		
7,700.0	6,478.2	7,697.1	6,226.4	78.8	85.8	28.88	-2,149.4	3,669.5	444.7	363.9	80.73	5.508		
7,800.0	6,559.7	7,822.3	6,325.6	79.9	87.3	28.97	-2,188.0	3,735.5	449.4	367.1	82.21	5.466		
7,900.0	6,641.2	7,948.7	6,430.6	81.1	88.6	29.54	-2,223.5	3,796.2	448.2	363.4	84.80	5.285		
8,000.0	6,722.7	8,074.1	6,539.1	82.2	89.8	30.62	-2,255.2	3,850.4	441.2	352.6	88.57	4.981		
8,100.0	6,804.2	8,197.4	6,649.6	83.4	90.7	32.25	-2,282.8	3,897.6	428.7	335.0	93.67	4.576		
8,200.0	6,886.4	8,318.2	6,761.0	84.5	91.5	34.21	-2,306.3	3,937.8	412.0	312.5	99.45	4.143		
8,300.0	6,971.3	8,436.9	6,873.2	85.4	92.2	36.31	-2,325.9	3,971.3	394.5	289.2	105.37	3.744		
8,400.0	7,058.9	8,553.6	6,985.7	86.3	92.7	38.62	-2,341.7	3,998.3	376.7	265.1	111.65	3.374		
8,500.0	7,148.8	8,668.5	7,098.0	87.1	93.1	41.19	-2,353.8	4,019.0	358.8	240.4	118.31	3.032		
8,600.0	7,241.0	8,781.5	7,209.6	87.8	93.4	44.05	-2,362.4	4,033.7	340.8	215.5	125.34	2.719		
8,700.0	7,335.0	8,892.6	7,320.2	88.4	93.5	47.24	-2,367.5	4,042.5	323.2	190.5	132.70	2.436		
8,800.0	7,430.7	9,001.8	7,429.4	88.9	93.6	50.78	-2,369.5	4,045.8	306.1	165.8	140.33	2.181		
8,900.0	7,527.7	9,100.1	7,527.7	89.2	93.6	54.05	-2,369.5	4,045.8	291.2	144.3	146.91	1.982		
9,000.0	7,625.9	9,198.3	7,625.9	89.5	93.6	56.87	-2,369.5	4,045.8	280.4	128.2	152.22	1.842		
9,100.0	7,725.0	9,297.3	7,724.8	89.8	93.6	59.09	-2,369.5	4,045.7	273.1	117.0	156.15	1.749		
9,200.0	7,824.6	9,396.8	7,824.4	89.9	93.7	60.55	-2,369.6	4,045.6	268.9	110.3	158.62	1.695		
9,300.0	7,924.5	9,496.7	7,924.3	89.9	93.7	61.15	-2,369.7	4,045.5	267.4	107.7	159.61	1.675		
9,330.1	7,954.6	9,526.8	7,954.4	89.9	93.7	59.80	-2,369.7	4,045.4	267.3	107.6	159.70	1.674		
9,400.0	8,024.5	9,596.7	8,024.3	90.0	93.7	-60.71	-2,369.8	4,045.3	267.4	107.7	159.74	1.674		
9,500.0	8,124.5	9,696.6	8,124.2	90.0	93.8	-60.68	-2,369.9	4,045.1	267.5	107.6	159.85	1.673		
9,600.0	8,224.5	9,796.6	8,224.2	90.0	93.8	-60.65	-2,370.0	4,044.9	267.6	107.6	159.96	1.673		
9,700.0	8,324.5	9,896.5	8,324.1	90.0	93.8	-60.63	-2,370.2	4,044.6	267.6	107.6	160.06	1.672		
9,800.0	8,424.5	9,996.5	8,424.1	90.1	93.8	-60.61	-2,370.3	4,044.4	267.7	107.5	160.16	1.671		
9,900.0	8,524.5	10,096.5	8,524.0	90.1	93.9	-60.60	-2,370.5	4,044.0	267.7	107.5	160.25	1.671		
10,000.0	8,624.5	10,196.4	8,624.0	90.1	93.9	-60.58	-2,370.7	4,043.7	267.8	107.4	160.34	1.670		
10,100.0	8,724.5	10,296.4	8,723.9	90.2	93.9	-60.57	-2,370.9	4,043.3	267.8	107.4	160.42	1.669		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15B-03 H04 596 (was 10E-03) - DD - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	8,824.5	10,396.3	8,823.9	90.2	94.0	-60.56	-2,371.2	4,042.9	267.8	107.3	160.50	1.669	
10,300.0	8,924.5	10,496.3	8,923.8	90.2	94.0	-60.56	-2,371.4	4,042.5	267.8	107.3	160.57	1.668	
10,400.0	9,024.5	10,596.2	9,023.8	90.3	94.0	-60.55	-2,371.7	4,042.0	267.8	107.2	160.64	1.667	
10,500.0	9,124.5	10,696.2	9,123.7	90.3	94.1	-60.56	-2,372.0	4,041.6	267.8	107.1	160.70	1.667	
10,600.0	9,224.5	10,796.1	9,223.7	90.3	94.1	-60.56	-2,372.3	4,041.0	267.8	107.1	160.76	1.666	
10,700.0	9,324.5	10,896.1	9,323.7	90.4	94.1	-60.56	-2,372.6	4,040.5	267.8	107.0	160.82	1.665	
10,800.0	9,424.5	10,996.0	9,423.6	90.4	94.1	-60.57	-2,373.0	4,039.9	267.8	106.9	160.87	1.665	
10,900.0	9,524.5	11,096.0	9,523.6	90.4	94.2	-60.59	-2,373.3	4,039.3	267.8	106.8	160.91	1.664	
11,000.0	9,624.5	11,195.9	9,623.5	90.4	94.2	-60.60	-2,373.7	4,038.6	267.7	106.8	160.95	1.663	
11,100.0	9,724.5	11,295.9	9,723.5	90.5	94.2	-60.62	-2,374.1	4,038.0	267.7	106.7	160.99	1.663	
11,200.0	9,824.5	11,395.9	9,823.5	90.5	94.3	-60.63	-2,374.5	4,037.3	267.6	106.6	161.03	1.662	
11,300.0	9,924.5	11,495.9	9,923.5	90.5	94.3	-60.65	-2,374.9	4,036.6	267.6	106.5	161.07	1.661	
11,400.0	10,024.5	11,595.9	10,023.5	90.6	94.3	-60.66	-2,375.3	4,035.9	267.6	106.5	161.11	1.661	
11,500.0	10,124.5	11,695.9	10,123.5	90.6	94.4	-60.67	-2,375.7	4,035.2	267.5	106.4	161.15	1.660	
11,600.0	10,224.5	11,795.9	10,223.4	90.6	94.4	-60.69	-2,376.1	4,034.6	267.5	106.3	161.20	1.659	
11,700.0	10,324.5	11,895.9	10,323.4	90.7	94.4	-60.70	-2,376.5	4,033.9	267.5	106.2	161.24	1.659	
11,800.0	10,424.5	11,995.9	10,423.4	90.7	94.5	-60.72	-2,376.9	4,033.2	267.4	106.1	161.29	1.658	
11,900.0	10,524.5	12,095.9	10,523.4	90.7	94.5	-60.73	-2,377.3	4,032.5	267.4	106.1	161.33	1.657	
12,000.0	10,624.5	12,195.9	10,623.4	90.8	94.5	-60.75	-2,377.7	4,031.8	267.4	106.0	161.38	1.657	
12,100.0	10,724.5	12,295.9	10,723.4	90.8	94.6	-60.76	-2,378.1	4,031.2	267.3	105.9	161.43	1.656	
12,200.0	10,824.5	12,395.9	10,823.4	90.8	94.6	-60.78	-2,378.5	4,030.5	267.3	105.8	161.48	1.655	
12,300.0	10,924.5	12,495.9	10,923.4	90.9	94.6	-60.79	-2,378.9	4,029.8	267.2	105.7	161.52	1.655	
12,400.0	11,024.5	12,595.9	11,023.4	90.9	94.7	-60.81	-2,379.3	4,029.1	267.2	105.6	161.57	1.654	
12,500.0	11,124.5	12,695.9	11,123.4	90.9	94.7	-60.82	-2,379.7	4,028.4	267.2	105.5	161.62	1.653	
12,600.0	11,224.5	12,795.9	11,223.4	91.0	94.7	-60.83	-2,380.1	4,027.7	267.1	105.5	161.67	1.652	
12,700.0	11,324.4	12,895.9	11,323.4	91.0	94.8	-60.85	-2,380.5	4,027.1	267.1	105.4	161.73	1.652	
12,800.0	11,424.4	12,995.9	11,423.4	91.0	94.8	-60.86	-2,380.9	4,026.4	267.1	105.3	161.78	1.651	
12,804.2	11,428.6	13,000.0	11,427.5	91.0	94.8	-60.86	-2,380.9	4,026.4	267.1	105.3	161.78	1.651 SF	
12,900.0	11,524.4	13,000.0	11,427.5	91.1	94.8	-60.86	-2,380.9	4,026.4	283.7	121.9	161.82	1.753	
13,000.0	11,624.4	13,000.0	11,427.5	91.1	94.8	-60.86	-2,380.9	4,026.4	331.2	169.3	161.85	2.046	



# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												H04 596 Pad - UWF15B-04 H04 596 - DD - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:												0-MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-150.82	-36.4	-20.3	41.7								
100.0	100.0	100.0	100.0	0.1	0.1	-150.82	-36.4	-20.3	41.7	41.5	0.23	178.349					
200.0	200.0	200.0	200.0	0.3	0.3	-150.82	-36.4	-20.3	41.7	41.1	0.58	71.553					
300.0	300.0	300.0	300.0	0.5	0.5	-150.82	-36.4	-20.3	41.7	40.8	0.93	44.754	CC, ES				
400.0	400.0	397.7	397.7	0.6	0.6	112.76	-38.3	-22.0	45.2	43.9	1.28	35.225					
500.0	499.6	494.2	493.9	0.9	0.8	120.63	-44.0	-26.7	56.4	54.7	1.65	34.119	SF				
600.0	598.8	588.7	587.6	1.1	1.1	121.58	-53.0	-34.4	75.6	73.5	2.05	36.786					
700.0	697.2	680.3	677.8	1.5	1.4	124.26	-65.2	-44.7	102.4	99.9	2.50	40.908					
800.0	794.5	768.4	763.7	1.9	1.8	126.50	-80.1	-57.2	136.6	133.6	3.01	45.381					
900.0	890.5	852.6	844.9	2.4	2.2	128.00	-97.0	-71.6	177.8	174.2	3.58	49.596					
1,000.0	984.9	932.3	920.8	3.1	2.6	128.83	-115.6	-87.3	225.5	221.3	4.23	53.337					
1,100.0	1,077.4	1,012.7	996.4	3.8	3.1	129.24	-136.9	-104.6	278.8	273.8	4.96	56.145					
1,200.0	1,167.9	1,095.6	1,073.6	4.6	3.7	129.11	-162.0	-121.5	335.0	329.2	5.83	57.488					
1,300.0	1,256.1	1,177.4	1,148.9	5.5	4.2	128.53	-190.0	-136.8	393.6	386.8	6.81	57.816					
1,400.0	1,341.6	1,256.3	1,221.1	6.6	4.8	127.81	-218.8	-150.8	454.6	446.8	7.86	57.808					

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15D-04 H04 596 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.12	-55.7	-25.8	61.4					
100.0	100.0	100.0	100.0	0.1	0.1	-155.12	-55.7	-25.8	61.4	61.1	0.23	262.355		
200.0	200.0	200.0	200.0	0.3	0.3	-155.12	-55.7	-25.8	61.4	60.8	0.58	105.256		
300.0	300.0	300.0	300.0	0.5	0.5	-155.12	-55.7	-25.8	61.4	60.4	0.93	65.834	CC, ES	
400.0	400.0	400.0	400.0	0.6	0.6	107.19	-55.7	-25.8	62.1	60.8	1.29	48.244		
500.0	499.6	498.0	498.0	0.9	0.8	113.50	-56.2	-26.1	65.5	63.8	1.66	39.335		
600.0	598.8	593.6	593.4	1.1	1.0	114.61	-60.6	-28.0	75.5	73.4	2.08	36.345	SF	
700.0	697.2	687.5	686.9	1.5	1.2	118.58	-69.2	-31.7	92.9	90.3	2.54	36.573		
800.0	794.5	779.3	777.7	1.9	1.5	122.26	-81.7	-37.1	117.5	114.5	3.06	38.405		
900.0	890.5	868.5	865.2	2.4	1.8	124.88	-97.6	-44.0	149.2	145.5	3.66	40.770		
1,000.0	984.9	954.6	948.8	3.1	2.1	126.52	-116.5	-52.1	187.3	182.9	4.35	43.087		
1,100.0	1,077.4	1,037.3	1,028.1	3.8	2.5	127.38	-137.9	-61.4	231.3	226.2	5.13	45.121		
1,200.0	1,167.9	1,116.7	1,103.2	4.6	3.0	127.67	-161.4	-71.6	280.8	274.8	5.99	46.852		
1,300.0	1,256.1	1,192.0	1,173.5	5.5	3.5	127.50	-186.3	-82.3	335.4	328.4	6.96	48.149		
1,400.0	1,341.6	1,263.9	1,239.5	6.6	4.0	126.97	-212.6	-93.3	394.4	386.4	8.04	49.075		
1,500.0	1,424.3	1,331.9	1,300.9	7.7	4.5	126.34	-239.5	-104.6	457.7	448.5	9.19	49.796		

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - UWF15E-04 H04 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-156.49	-64.7	-28.2	70.6					
100.0	100.0	100.0	100.0	0.1	0.1	-156.49	-64.7	-28.2	70.6	70.4	0.23	301.900		
133.3	133.3	133.3	133.3	0.2	0.2	-156.49	-64.7	-28.2	70.6	70.3	0.35	201.601	CC, ES	
200.0	200.0	198.2	198.2	0.3	0.3	-156.44	-65.3	-28.5	71.2	70.7	0.58	122.686		
300.0	300.0	294.4	294.3	0.5	0.5	-156.03	-69.5	-30.9	76.2	75.3	0.95	80.642		
400.0	400.0	389.7	389.1	0.6	0.7	105.94	-77.8	-35.7	86.9	85.7	1.27	68.455		
500.0	499.6	483.2	481.5	0.9	1.0	109.93	-89.9	-42.7	104.3	102.7	1.64	63.613		
600.0	598.8	574.2	570.7	1.1	1.4	107.51	-105.4	-51.6	128.1	126.0	2.06	62.239		
700.0	697.2	662.3	656.2	1.5	1.8	108.18	-123.9	-62.3	157.8	155.2	2.55	61.959		
800.0	794.5	747.1	737.4	1.9	2.3	109.57	-144.9	-74.4	193.5	190.3	3.12	62.014		
900.0	890.5	828.1	813.9	2.4	2.8	110.89	-167.9	-87.7	235.0	231.2	3.78	62.118		
1,000.0	984.9	905.2	885.7	3.1	3.3	111.90	-192.4	-101.8	282.2	277.6	4.54	62.201		
1,100.0	1,077.4	983.3	957.1	3.8	3.9	112.73	-219.7	-117.6	334.6	329.2	5.39	62.061		
1,200.0	1,167.9	1,055.5	1,022.1	4.6	4.5	112.96	-247.3	-132.4	390.9	384.6	6.35	61.560		
1,300.0	1,256.1	1,132.0	1,090.2	5.5	5.1	112.94	-279.2	-146.9	449.9	442.5	7.43	60.518	SF	

# Cathedral Energy Services

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design H04 596 Pad - WF10D O03 - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 176-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
7,100.0	5,989.1	32,607.6	5,996.5	71.9	99.1	-1.28	-1,870.6	3,617.6	469.5	370.1	99.41	4.723		
7,200.0	6,070.6	33,381.0	6,129.7	73.0	100.2	-3.74	-1,860.0	3,621.2	414.8	312.6	102.14	4.061		
7,300.0	6,152.1	33,514.7	6,167.6	74.2	101.6	-7.98	-1,840.2	3,622.8	346.5	239.6	106.88	3.242		
7,400.0	6,233.7	33,869.8	6,223.0	75.3	105.3	-8.64	-1,842.9	3,625.3	291.9	181.3	110.61	2.639		
7,500.0	6,315.2	34,563.3	6,317.4	76.5	105.1	-20.23	-1,812.6	3,629.4	230.5	106.7	123.86	1.861		
7,600.0	6,396.7	35,574.6	6,410.9	77.6	112.5	-34.56	-1,795.5	3,633.3	179.6	35.2	144.35	1.244	Level 2	
7,700.0	6,478.2	36,211.6	6,506.3	78.8	109.8	-52.88	-1,792.3	3,637.3	138.2	-14.9	153.08	0.903	Level 1	
7,784.9	6,547.4	36,211.6	6,506.3	79.7	109.8	-52.88	-1,792.3	3,637.3	109.0	-44.8	153.86	0.709	Level 1	
7,800.0	6,559.7	36,211.6	6,506.3	79.9	109.8	-52.88	-1,792.3	3,637.3	110.1	-43.9	154.00	0.715	Level 1	
7,886.7	6,630.4	36,758.3	6,630.4	80.9	114.4	-93.56	-1,782.4	3,642.5	98.3	-51.3	149.61	0.657	Level 1, CC, ES, SF	
7,900.0	6,641.2	36,776.4	6,635.9	81.1	114.3	-95.31	-1,782.5	3,642.7	99.0	-49.9	148.87	0.665	Level 1	
8,000.0	6,722.7	37,139.7	6,695.3	82.2	112.7	-112.91	-1,759.4	3,645.1	145.7	3.9	141.86	1.027	Level 2	
8,100.0	6,804.2	37,598.6	6,788.8	83.4	117.5	-128.49	-1,743.3	3,649.1	196.3	58.9	137.45	1.428	Level 3	
8,200.0	6,886.4	37,769.7	6,842.5	84.5	116.8	-136.42	-1,748.1	3,651.5	238.5	102.6	135.94	1.755		
8,300.0	6,971.3	38,063.1	6,883.4	85.4	115.5	-139.34	-1,727.1	3,653.2	308.8	172.3	136.50	2.262		
8,400.0	7,058.9	38,669.9	7,024.6	86.3	119.8	-147.19	-1,717.0	3,659.4	345.4	208.7	136.71	2.527		
8,500.0	7,148.8	38,984.8	7,071.5	87.1	118.4	-147.79	-1,695.2	3,661.4	406.3	268.5	137.81	2.948		
8,600.0	7,241.0	39,414.7	7,171.8	87.8	121.0	-150.97	-1,690.5	3,664.4	441.3	302.1	139.14	3.172		
8,700.0	7,335.0	39,994.0	7,291.4	88.4	122.2	-153.10	-1,678.1	3,665.7	477.9	337.5	140.43	3.403		

# Cathedral Energy Services

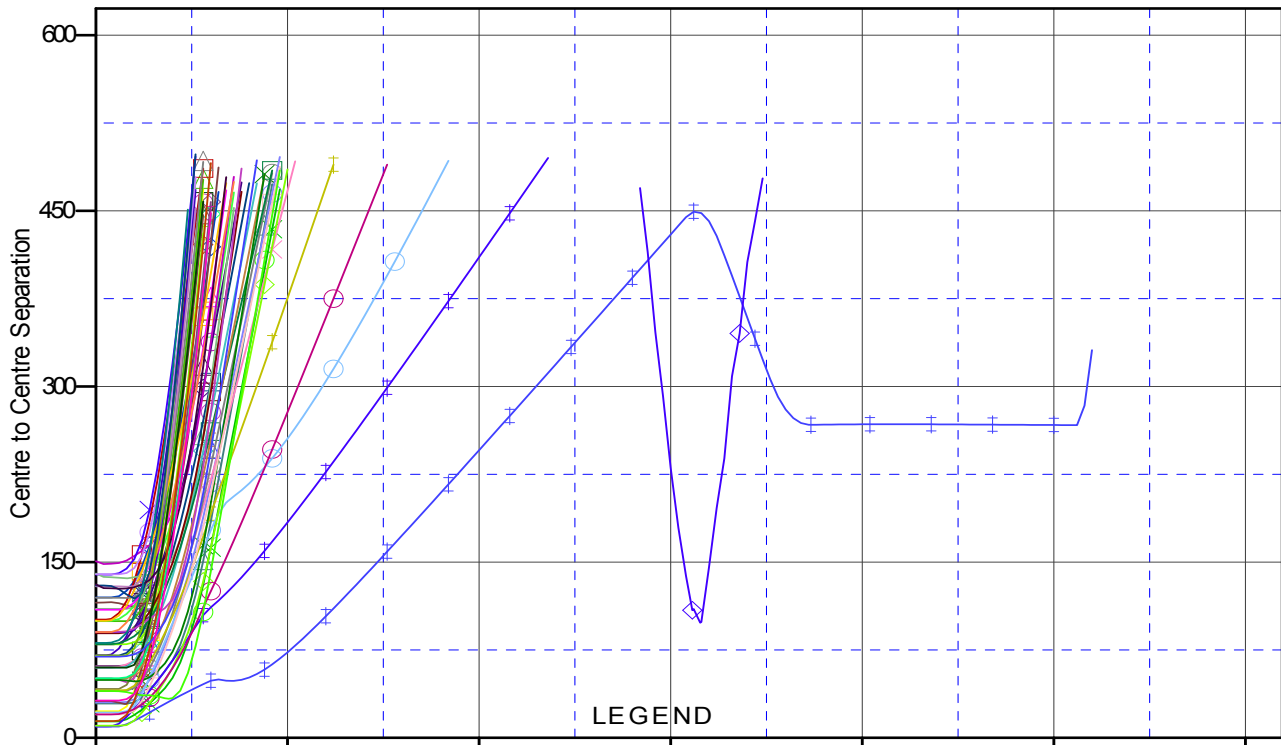
## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well UWF15A-03 H04 596 (was 10D-03)
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Reference Site:</b>	H04 596 Pad	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	UWF15A-03 H04 596 (was 10D-03)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 8293.0ft (Original Well Elev)  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.00 W °

Coordinates are relative to: UWF15A-03 H04 596 (was 10D-03)  
Coordinate System is US State Plane 1983, Colorado Central Zone  
Grid Convergence at Surface is: -1.68°

### Ladder Plot



#### LEGEND

UWF10E-04 H04 596, DD, Plan #1 V0	UWF04A-10 H04 596, DD, Plan #1 V0	UWF07E-03 H04 596, DD, Plan #1 V0
UWF06E-04 H04 596 (was 07E-04), DD, Plan #2 V0	CP12D-03 H04, Existing, Existing V0	UWF05D-03 H04 596, DD, Plan #1 V0
UWF04D-03 H04 596, DD, Plan #1 V0	UWF15E-04 H04 596, DD, Plan #1 V0	UWF12E-03 H04 596, DD, Plan #1 V0
UWF04E-04 H04 596, DD, Plan #1 V0	UWF04E-03 H04 596, DD, Plan #1 V0	UWF02C-04 H04 596, DD, Plan #1 V0
UWF07A-04 H04 596, DD, Plan #1 V0	UWF13B-03 H04 596, DD, Plan #2 V0	UWF14C-04 H04 596 (was 15C-04), DD, Plan #1 V0
CP01B-04 H04 ST1, Existing, Existing V0	UWF07B-04 H04 596, DD, Plan #2 V0	UWF04B-04 H04 596, DD, Plan #1 V0
UWF12A-03 H04 596, DD, Plan #2 V0	UWF15B-04 H04 596, DD, Plan #1 V0	UWF04B-10 H04 596, DD, Plan #1 V0
UWF12B-03 H04 596, DD, Plan #1 V0	UWF07B-03 H04 596, DD, Plan #1 V0	WF10D-03, Existing, Existing V0
UWF10C-03 H04 596, DD, Plan #1 V0	UWF02D-04 H04 596, DD, Plan #1 V0	UWF10A-03 H04 596, DD, Plan #1 V0
UWF05A-03 H04 596, DD, Plan #1 V0	UWF15B-03 H04 596 (was 10E-03), DD, Plan #2 V0	UWF06B-04 H04 596, DD, Plan #1 V0
UWF13A-03 H04 596, DD, Plan #1 V0	CP05B-03 H04, Existing, Existing V0	UWF04C-04 H04 596, DD, Plan #1 V0
UWF04D-10 H04 596, DD, Plan #1 V0	UWF05B-03 H04 596, DD, Plan #2 V0	CP08D-04 H04, Existing, Existing V0
UWF15D-04 H04 596, DD, Plan #1 V0	UWF13C-03 H04 596, DD, Plan #2 V0	UWF07C-04 H04 596, DD, Plan #1 V0