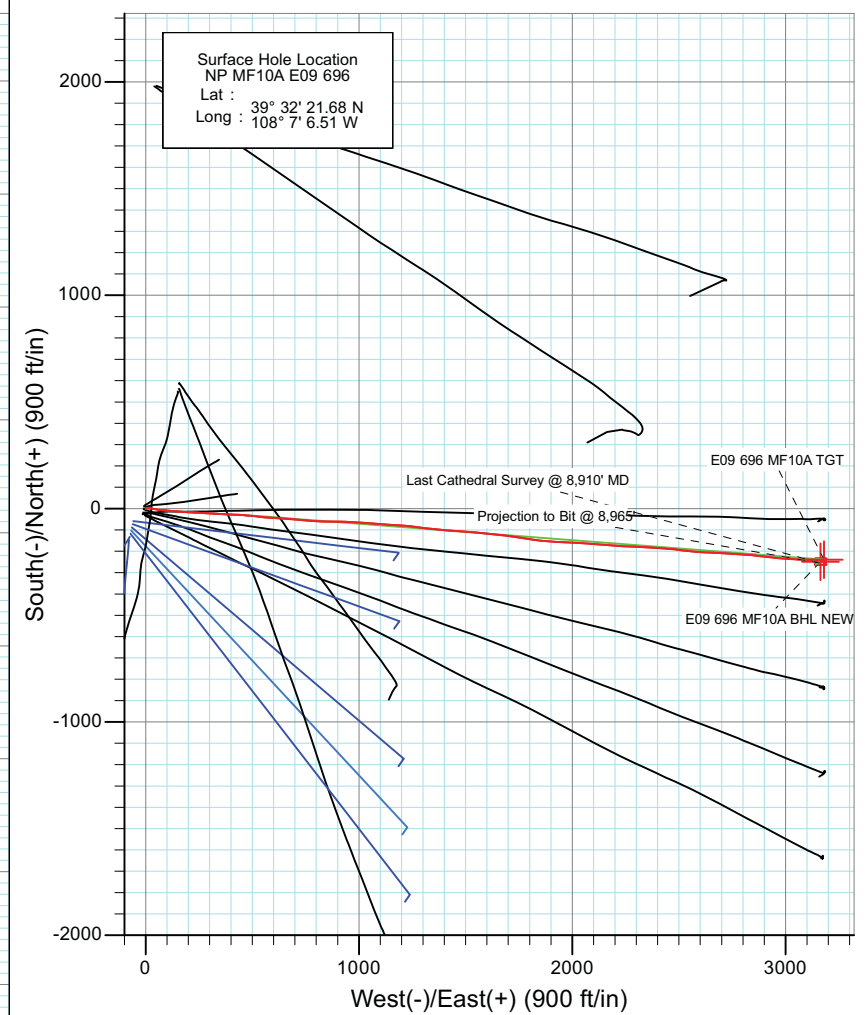
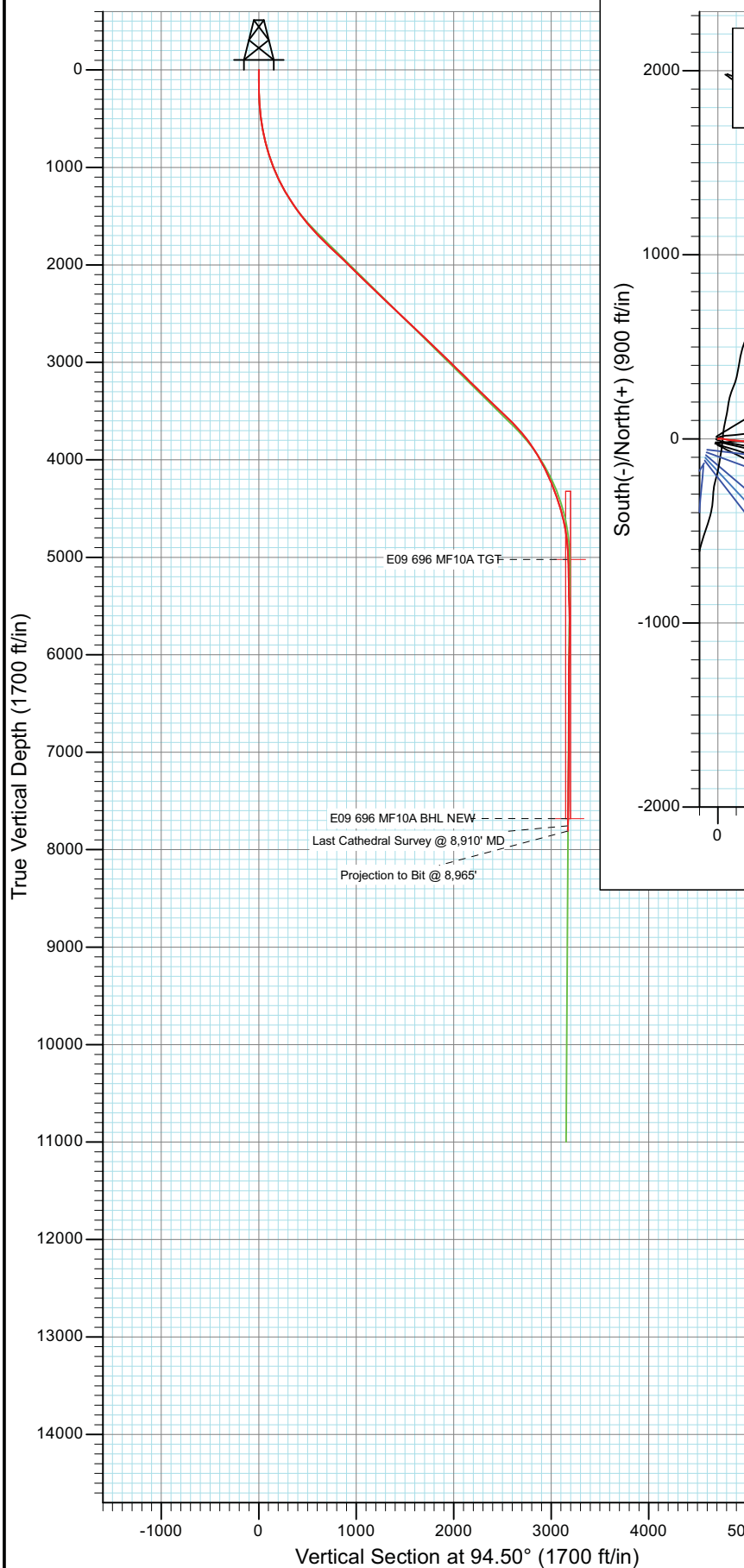




Project: North Piceance  
 Site: E09 696 (SWNW S9-T6S-R96W)  
 Well: NP MF10A E09 696  
 Wellbore: DD  
 Design: Final



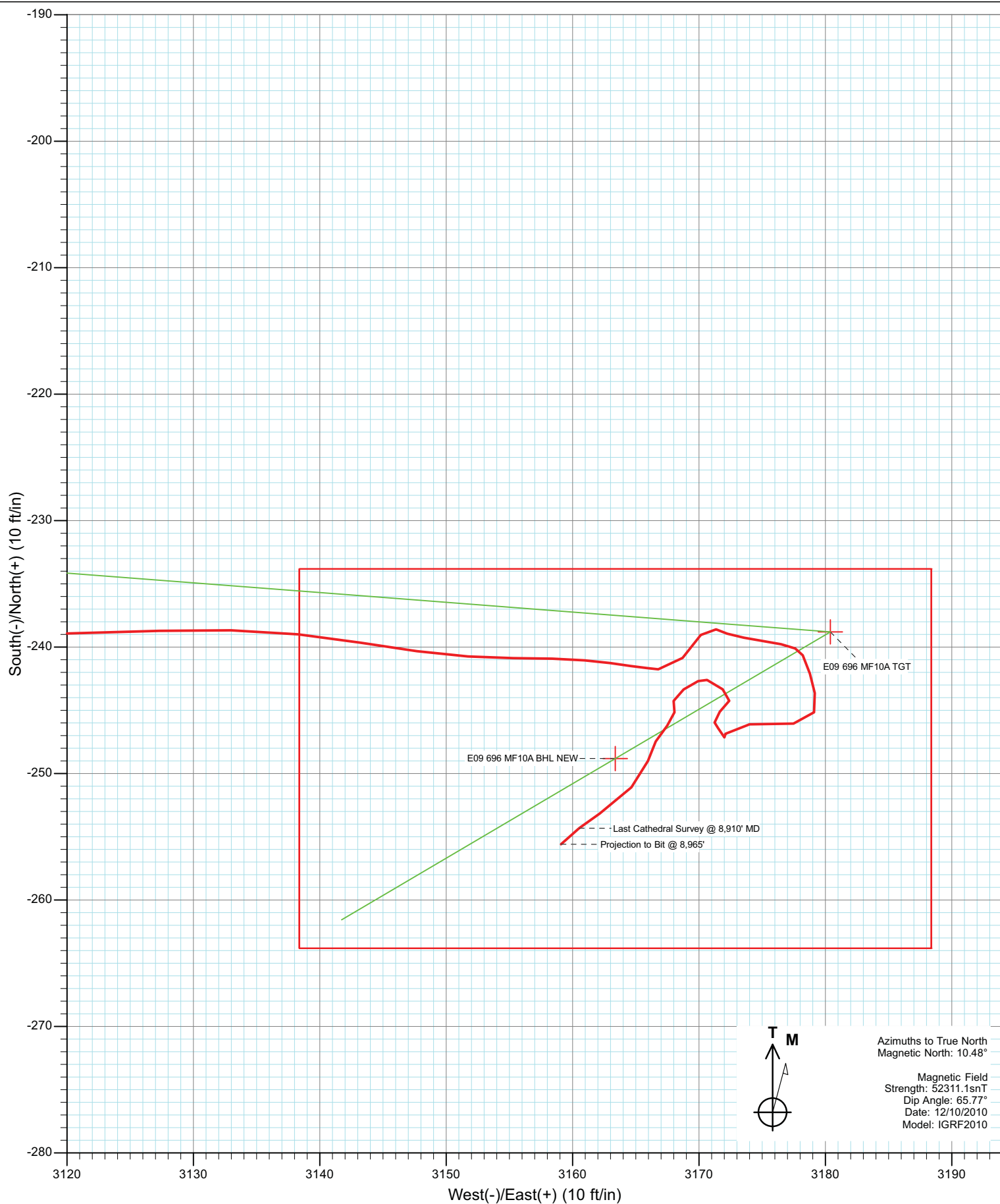
Azimuths to True North  
 Magnetic North: 10.48°

Magnetic Field  
 Strength: 52311.1snT  
 Dip Angle: 65.77°  
 Date: 12/10/2010  
 Model: IGRF2010

DD NP MF10A E09 696 105474 (SH), 105556 (MH); LR					
WELL @ 5772.0ft (Original Well Elev) North American Datum 1983 Well NP MF10A E09 696, True North					
Target	E09 696 MF10A BHL NEW	Azimuth	94.50	Origin Type	N/S
			Slot		0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
E09 696 MF10A TGT	5022.0	-238.8	3180.4	39° 32' 19.32 N	108° 6' 25.91 W
E09 696 MF10A BHL NEW	7682.0	-248.8	3163.4	39° 32' 19.22 N	108° 6' 26.13 W



Project: North Piceance  
Site: E09 696 (SWNW S9-T6S-R96W)  
Well: NP MF10A E09 696  
Wellbore: DD  
Design: FINAL



## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well NP MF10A E09 696
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Site:</b>	E09 696 (SWNW S9-T6S-R96W)	<b>MD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Well:</b>	NP MF10A E09 696	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB

<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		E09 696 (SWNW S9-T6S-R96W)			
Site Position:		Northing:	1,632,140.57 ft	Latitude:	39° 32' 23.23 N
From:	Lat/Long	Easting:	2,261,634.68 ft	Longitude:	108° 7' 6.47 W
Position Uncertainty:	0.0 ft	Slot Radius:	0.000 in	Grid Convergence:	-1.65 °

Well	NP MF10A E09 696					
Well Position	+N/-S	0.0 ft	Northing:	1,631,983.92 ft	Latitude:	39° 32' 21.68 N
	+E/-W	0.0 ft	Easting:	2,261,627.06 ft	Longitude:	108° 7' 6.51 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,739.0 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 (nT)</b>
	IGRF2010	12/10/2010	10.48	65.77	52,311

<b>Design</b>	DD				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<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	94.50	

<b>Survey Program</b>	<b>Date</b>	12/20/2010			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
234.0	8,965.0	Survey #1 (DD)	MWD	Geolink MWD	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Formations / Comments</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
234.0	1.50	81.50	234.0	0.5	3.0	3.0	0.64	0.64		
265.0	1.80	78.30	265.0	0.6	3.9	3.8	1.01	0.97		
296.0	2.20	86.10	295.9	0.8	5.0	4.9	1.56	1.29		
326.0	2.80	84.60	325.9	0.9	6.3	6.2	2.01	2.00		
357.0	4.00	82.60	356.9	1.1	8.1	8.0	3.89	3.87		
388.0	4.80	88.70	387.8	1.2	10.5	10.3	2.99	2.58		
419.0	5.40	90.10	418.6	1.3	13.2	13.1	1.98	1.94		
449.0	6.10	90.80	448.5	1.2	16.2	16.1	2.34	2.33		
480.0	7.20	93.70	479.3	1.1	19.8	19.7	3.71	3.55		
511.0	7.90	94.60	510.0	0.8	23.9	23.7	2.29	2.26		
542.0	8.60	100.50	540.7	0.2	28.3	28.2	3.54	2.26		
574.0	9.40	102.20	572.3	-0.8	33.2	33.2	2.63	2.50		

# Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well NP MF10A E09 696
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Site:</b>	E09 696 (SWNW S9-T6S-R96W)	<b>MD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Well:</b>	NP MF10A E09 696	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
606.0	10.60	101.30	603.8	-1.9	38.6	38.7	3.78	3.75	
669.0	12.70	97.00	665.5	-3.9	51.2	51.3	3.60	3.33	
732.0	13.70	97.40	726.8	-5.7	65.5	65.7	1.59	1.59	
795.0	15.10	95.70	787.9	-7.5	81.0	81.4	2.32	2.22	
858.0	16.70	94.20	848.5	-9.0	98.2	98.6	2.62	2.54	
921.0	18.70	93.90	908.5	-10.3	117.3	117.8	3.18	3.17	
984.0	20.70	94.40	967.8	-11.8	138.5	139.0	3.19	3.17	
1,048.0	21.90	95.20	1,027.4	-13.8	161.7	162.3	1.93	1.87	
1,111.0	23.80	94.20	1,085.5	-15.8	186.1	186.7	3.08	3.02	
1,174.0	26.00	94.50	1,142.6	-17.8	212.5	213.2	3.50	3.49	
1,237.0	28.60	92.80	1,198.6	-19.6	241.3	242.1	4.31	4.13	
1,300.0	30.90	92.30	1,253.3	-21.0	272.6	273.4	3.67	3.65	
1,363.0	32.30	92.10	1,306.9	-22.3	305.5	306.4	2.23	2.22	
1,426.0	33.30	94.70	1,359.9	-24.3	339.6	340.5	2.74	1.59	
1,500.0	36.10	92.30	1,420.7	-26.9	381.6	382.6	4.21	3.78	
1,558.0	36.10	91.90	1,467.6	-28.1	415.8	416.7	0.41	0.00	
1,653.0	38.10	95.90	1,543.4	-32.0	472.9	474.0	3.30	2.11	
1,748.0	40.90	96.30	1,616.7	-38.5	533.0	534.4	2.96	2.95	
1,843.0	44.60	93.20	1,686.4	-43.7	597.3	598.8	4.48	3.89	
1,938.0	45.30	94.60	1,753.7	-48.3	664.2	666.0	1.28	0.74	
2,033.0	45.90	94.70	1,820.1	-53.8	731.9	733.8	0.64	0.63	
2,127.0	46.90	93.70	1,884.9	-58.8	799.8	801.9	1.31	1.06	
2,222.0	46.90	90.10	1,949.9	-61.1	869.1	871.2	2.77	0.00	
2,317.0	45.20	91.30	2,015.8	-61.9	937.4	939.4	2.01	-1.79	
2,412.0	44.30	94.90	2,083.3	-65.5	1,004.2	1,006.2	2.83	-0.95	
2,506.0	46.10	94.20	2,149.5	-70.8	1,070.7	1,072.9	1.99	1.91	
2,601.0	46.80	93.40	2,215.0	-75.4	1,139.4	1,141.8	0.96	0.74	
2,695.0	45.60	94.10	2,280.0	-79.8	1,207.1	1,209.6	1.39	-1.28	
2,790.0	46.10	97.40	2,346.2	-86.6	1,274.9	1,277.8	2.55	0.53	
2,885.0	46.50	96.50	2,411.8	-94.9	1,343.1	1,346.4	0.80	0.42	
2,979.0	47.80	94.90	2,475.8	-101.8	1,411.6	1,415.3	1.86	1.38	
3,074.0	46.00	93.60	2,540.7	-106.9	1,480.8	1,484.6	2.14	-1.89	
3,169.0	46.40	94.70	2,606.4	-111.9	1,549.2	1,553.2	0.94	0.42	
3,264.0	46.10	96.20	2,672.1	-118.4	1,617.5	1,621.8	1.18	-0.32	
3,359.0	46.30	97.80	2,737.9	-126.8	1,685.6	1,690.3	1.23	0.21	
3,453.0	46.40	97.90	2,802.8	-136.1	1,752.9	1,758.2	0.13	0.11	
3,548.0	46.40	98.80	2,868.3	-146.0	1,821.0	1,826.8	0.69	0.00	
3,643.0	46.10	93.40	2,934.0	-153.3	1,889.2	1,895.4	4.12	-0.32	
3,738.0	45.80	93.00	3,000.1	-157.2	1,957.4	1,963.7	0.44	-0.32	
3,832.0	46.10	92.90	3,065.4	-160.6	2,024.8	2,031.2	0.33	0.32	
3,927.0	45.80	94.70	3,131.5	-165.2	2,092.9	2,099.5	1.40	-0.32	
4,022.0	44.60	94.40	3,198.4	-170.5	2,160.1	2,166.9	1.28	-1.26	
4,117.0	45.30	93.90	3,265.6	-175.4	2,227.1	2,234.0	0.83	0.74	
4,212.0	47.10	92.70	3,331.4	-179.3	2,295.5	2,302.5	2.10	1.89	
4,306.0	45.60	93.30	3,396.3	-182.9	2,363.5	2,370.5	1.66	-1.60	
4,401.0	46.80	93.50	3,462.0	-186.9	2,431.9	2,439.1	1.27	1.26	
4,496.0	46.30	97.30	3,527.4	-193.4	2,500.5	2,508.0	2.95	-0.53	
4,590.0	45.50	95.60	3,592.8	-201.0	2,567.6	2,575.5	1.55	-0.85	
4,685.0	43.30	93.00	3,660.7	-206.0	2,633.9	2,641.9	3.00	-2.32	
4,780.0	39.20	92.30	3,732.1	-208.9	2,696.4	2,704.5	4.34	-4.32	
4,875.0	36.10	95.00	3,807.3	-212.6	2,754.3	2,762.5	3.70	-3.26	
4,970.0	33.60	92.60	3,885.2	-216.2	2,808.5	2,816.8	3.00	-2.63	
5,064.0	30.40	96.00	3,965.0	-219.9	2,858.1	2,866.6	3.91	-3.40	

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well NP MF10A E09 696
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Site:</b>	E09 696 (SWNW S9-T6S-R96W)	<b>MD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Well:</b>	NP MF10A E09 696	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
5,159.0	28.20	97.60	4,047.8	-225.3	2,904.3	2,913.0	2.46	-2.32	
5,254.0	25.20	94.40	4,132.7	-229.9	2,946.7	2,955.7	3.50	-3.16	
5,349.0	22.10	96.70	4,219.7	-233.5	2,984.6	2,993.8	3.40	-3.26	
5,443.0	21.40	91.90	4,307.0	-236.1	3,019.3	3,028.6	2.03	-0.74	
5,538.0	19.00	94.50	4,396.1	-237.9	3,052.1	3,061.3	2.70	-2.53	
5,633.0	16.80	90.90	4,486.5	-239.3	3,081.2	3,090.5	2.59	-2.32	
5,727.0	14.50	88.70	4,577.1	-239.3	3,106.6	3,115.8	2.53	-2.45	
5,822.0	10.70	88.00	4,669.8	-238.7	3,127.3	3,136.4	4.00	-4.00	
5,917.0	8.70	99.90	4,763.4	-239.6	3,143.2	3,152.3	2.97	-2.11	
6,012.0	6.10	90.00	4,857.6	-240.9	3,155.3	3,164.5	3.04	-2.74	
6,106.0	3.30	98.20	4,951.3	-241.3	3,163.0	3,172.2	3.06	-2.98	
6,201.0	1.30	95.70	5,046.2	-241.8	3,166.8	3,176.0	2.11	-2.11	
6,296.0	1.60	40.50	5,141.2	-240.9	3,168.7	3,177.8	1.44	0.32	
6,391.0	1.20	35.30	5,236.1	-239.0	3,170.1	3,179.1	0.44	-0.42	
6,485.0	0.90	118.80	5,330.1	-238.6	3,171.4	3,180.3	1.51	-0.32	
6,580.0	1.90	101.30	5,425.1	-239.3	3,173.6	3,182.5	1.13	1.05	
6,675.0	1.70	98.70	5,520.1	-239.8	3,176.5	3,185.5	0.23	-0.21	
6,769.0	0.90	152.20	5,614.0	-240.6	3,178.2	3,187.3	1.46	-0.85	
6,864.0	1.00	164.90	5,709.0	-242.1	3,178.8	3,188.0	0.24	0.11	
6,959.0	0.90	166.70	5,804.0	-243.6	3,179.2	3,188.5	0.11	-0.11	
7,054.0	1.00	196.50	5,899.0	-245.2	3,179.1	3,188.5	0.52	0.11	
7,148.0	1.70	265.50	5,993.0	-246.0	3,177.5	3,187.0	1.74	0.74	
7,243.0	2.50	271.60	6,087.9	-246.1	3,174.0	3,183.5	0.87	0.84	
7,337.0	1.00	170.00	6,181.9	-246.9	3,172.1	3,181.7	3.06	-1.60	
7,432.0	0.70	336.70	6,276.9	-247.1	3,172.0	3,181.6	1.78	-0.32	
7,527.0	0.40	305.60	6,371.9	-246.4	3,171.5	3,181.1	0.43	-0.32	
7,622.0	0.30	358.40	6,466.9	-246.0	3,171.2	3,180.8	0.34	-0.11	
7,716.0	0.90	34.40	6,560.9	-245.1	3,171.6	3,181.1	0.72	0.64	
7,811.0	0.50	52.90	6,655.9	-244.2	3,172.4	3,181.8	0.48	-0.42	
7,906.0	1.30	308.10	6,750.8	-243.3	3,171.9	3,181.2	1.59	0.84	
8,000.0	0.50	280.50	6,844.8	-242.6	3,170.6	3,179.9	0.94	-0.85	
8,095.0	0.40	241.20	6,939.8	-242.7	3,169.9	3,179.2	0.33	-0.11	
8,190.0	1.20	239.70	7,034.8	-243.3	3,168.8	3,178.1	0.84	0.84	
8,285.0	0.50	171.60	7,129.8	-244.3	3,168.0	3,177.4	1.17	-0.74	
8,379.0	0.60	177.90	7,223.8	-245.2	3,168.1	3,177.5	0.12	0.11	
8,474.0	1.00	226.90	7,318.8	-246.2	3,167.5	3,177.0	0.80	0.42	
8,569.0	0.90	203.90	7,413.8	-247.5	3,166.6	3,176.2	0.41	-0.11	
8,664.0	1.10	199.50	7,508.8	-249.0	3,166.0	3,175.7	0.23	0.21	
8,759.0	1.90	219.60	7,603.7	-251.1	3,164.7	3,174.6	1.00	0.84	
8,854.0	2.10	240.10	7,698.7	-253.2	3,162.1	3,172.3	0.78	0.21	
8,910.0	2.00	228.60	7,754.6	-254.3	3,160.5	3,170.7	0.75	-0.18	Last Cathedral Survey @ 8,910' MD Projection to Bit @ 8,965'
8,965.0	2.00	228.60	7,809.6	-255.6	3,159.1	3,169.4	0.00	0.00	

## Survey Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well NP MF10A E09 696
<b>Project:</b>	North Piceance	<b>TVD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Site:</b>	E09 696 (SWNW S9-T6S-R96W)	<b>MD Reference:</b>	WELL @ 5772.0ft (Original Well Elev)
<b>Well:</b>	NP MF10A E09 696	<b>North Reference:</b>	True
<b>Wellbore:</b>	DD	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	DD	<b>Database:</b>	EDM 5000.1 US Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
E09 696 MF10A BHL NE	0.00	0.00	7,682.0	-248.8	3,163.4	1,631,644.04	2,264,781.96	39° 32' 19.22 N	108° 6' 26.13 W
- survey misses target center by 4.1ft at 8837.2ft MD (7681.9 TVD, -252.8 N, 3162.7 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
E09 696 MF10A TGT	0.00	0.00	5,022.0	-238.8	3,180.4	1,631,653.57	2,264,799.26	39° 32' 19.32 N	108° 6' 25.91 W
- survey misses target center by 14.6ft at 6177.3ft MD (5022.6 TVD, -241.7 N, 3166.1 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
8,910.0	7,754.6	-254.3	3,160.5	Last Cathedral Survey @ 8,910' MD
8,965.0	7,809.6	-255.6	3,159.1	Projection to Bit @ 8,965'

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_