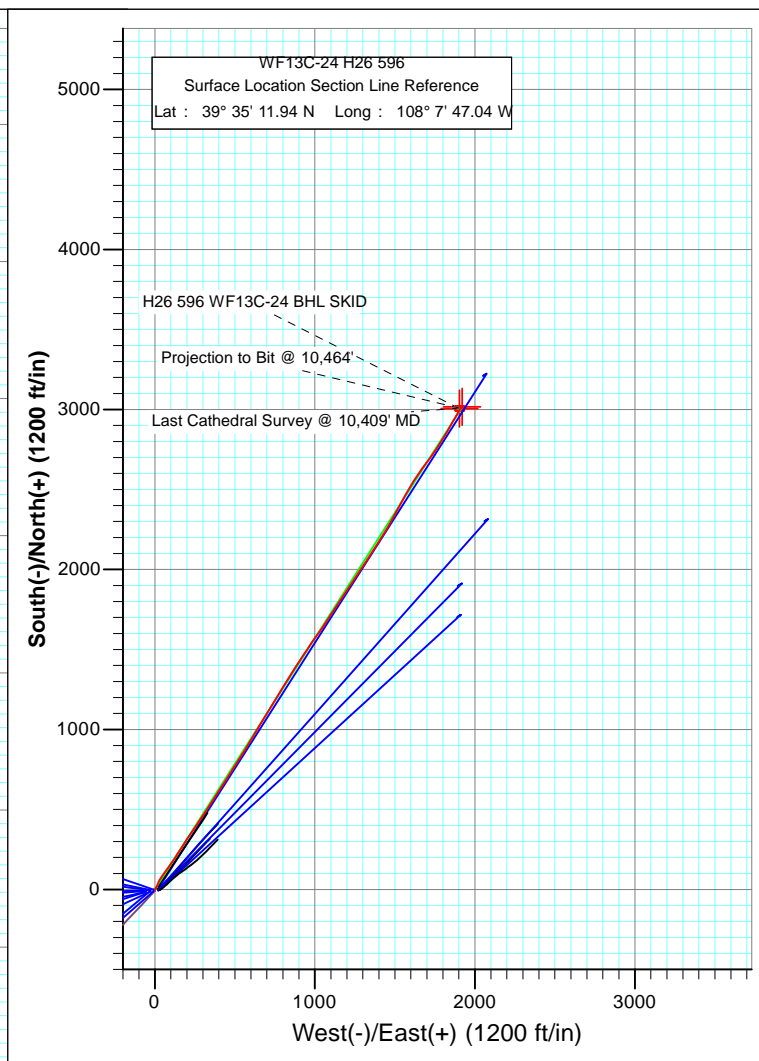
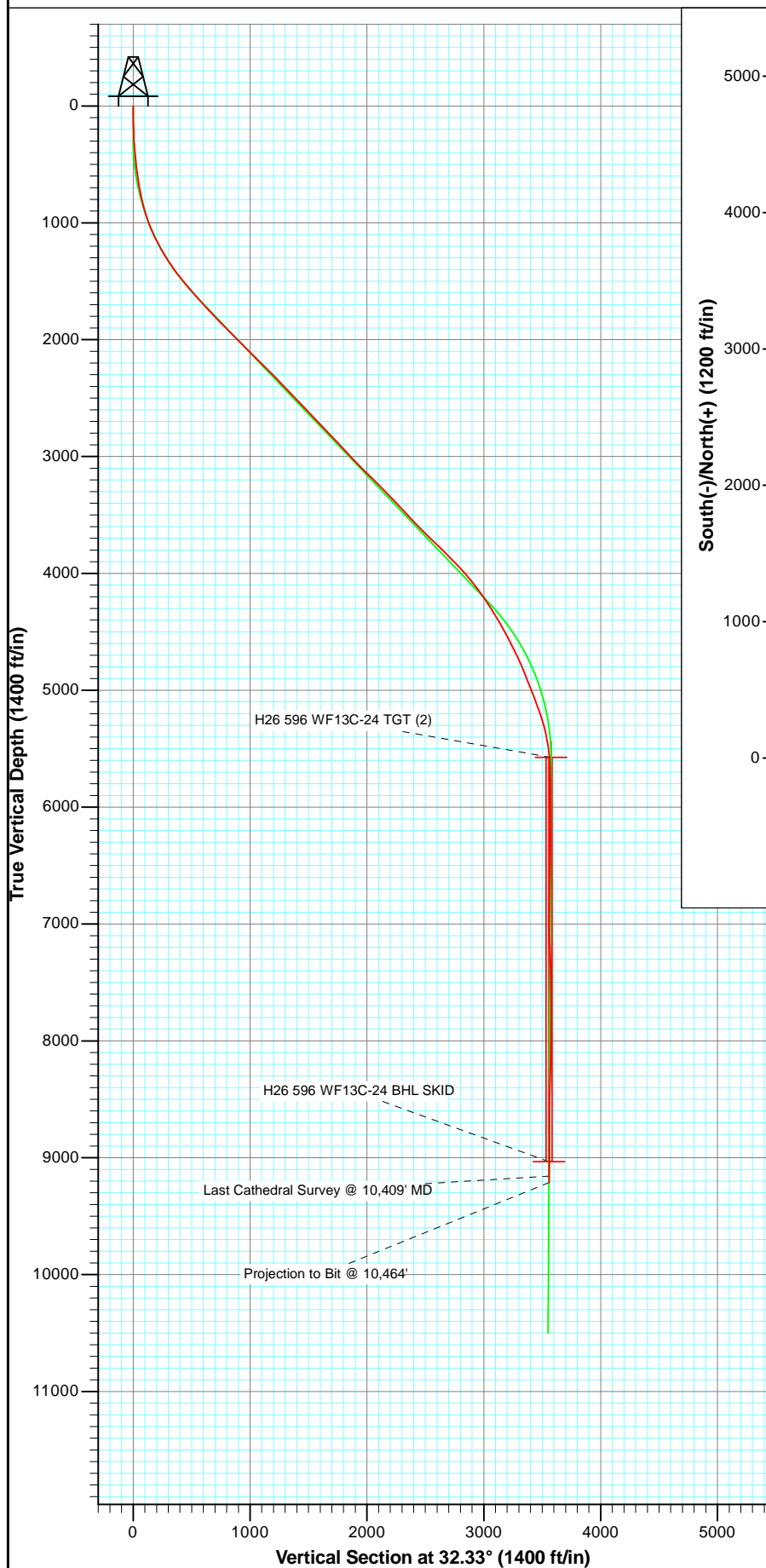




Project: North Piceance
Site: H26 596
Well: WF13C-24 H26 596
Wellbore: DD
Plan: FINAL



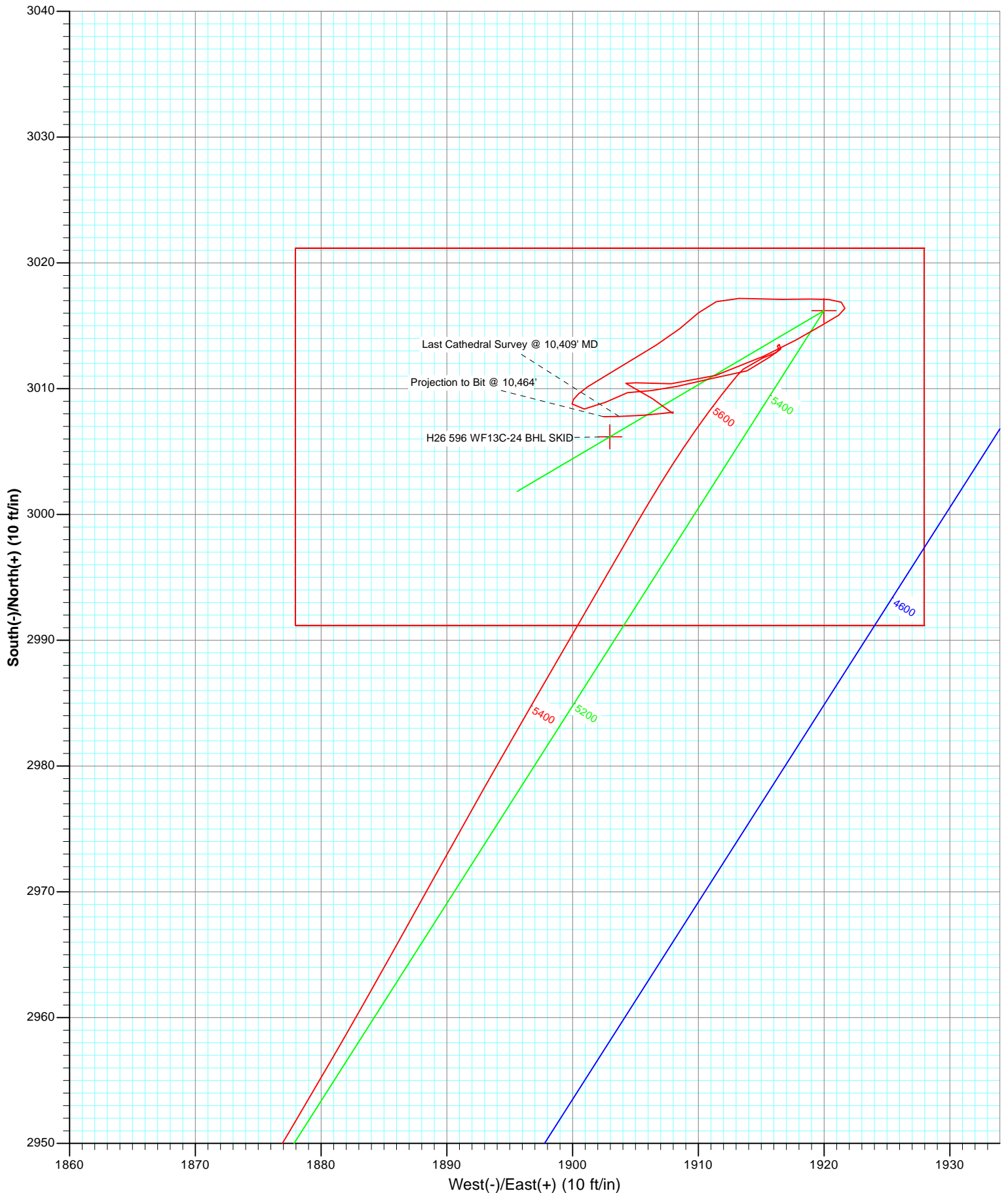
Azimuths to True North
Magnetic North: 10.43°

Magnetic Field
Strength: 52283.4snT
Dip Angle: 65.79°
Date: 6/6/2011
Model: IGRF2010

DD WF13C-24 H26 596 115234/7592 (SH); LR 115234/7638 (MH); SC WELL @ 6114.0ft (Original Well Elev) GL @ 6052.0 North American Datum 1983 Well WF13C-24 H26 596, True North							
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD	
		32.33	Slot	0.0	0.0	0.0	
H26 596 WF13C-24 TGT (2)	TVD	5574.0	+N/-S	1920.0	39° 35' 41.75 N	108° 7' 22.51 W	
H26 596 WF13C-24 BHL SKID		9034.0	3006.2	1903.0	39° 35' 41.65 N	108° 7' 22.73 W	



Project: North Piceance
Site: H26 596
Well: WF13C-24 H26 596
Wellbore: DD
Plan: FINAL



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF13C-24 H26 596
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Original Well Elev)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Original Well Elev)
Well:	WF13C-24 H26 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 Multi Users DB

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

Site		H26 596			
Site Position:		Northing:	1,649,294.53 ft	Latitude:	39° 35' 11.93 N
From:	Map	Easting:	2,258,943.98 ft	Longitude:	108° 7' 47.14 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.66 °

Well	WF13C-24 H26 596					
Well Position	+N/-S	0.0 ft	Northing:	1,649,295.30 ft	Latitude:	39° 35' 11.94 N
	+E/-W	0.0 ft	Easting:	2,258,951.83 ft	Longitude:	108° 7' 47.04 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,092.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/6/2011	10.43	65.79	52,283

Design	DD				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	32.33	

Survey Program	Date	9/14/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
231.0	1,706.0	Survey #1 (DD)	MWD	Geolink MWD	
1,800.0	10,464.0	Survey #2 (DD)	MWD	Geolink MWD	

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	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
231.0	1.90	35.30	231.0	3.1	2.2	3.8	0.82	0.82		
261.0	2.50	27.60	260.9	4.1	2.8	5.0	2.23	2.00		
292.0	3.10	29.90	291.9	5.4	3.5	6.5	1.97	1.94		
322.0	3.50	37.20	321.8	6.9	4.5	8.2	1.93	1.33		
353.0	4.40	27.00	352.8	8.7	5.6	10.3	3.67	2.90		
383.0	4.70	24.50	382.7	10.8	6.6	12.7	1.20	1.00		
413.0	5.30	32.50	412.6	13.1	7.9	15.3	3.06	2.00		
444.0	5.90	31.20	443.4	15.7	9.5	18.3	1.98	1.94		
474.0	6.40	25.80	473.2	18.5	11.0	21.5	2.55	1.67		
505.0	6.90	26.20	504.0	21.7	12.6	25.1	1.62	1.61		
554.0	7.60	19.20	552.6	27.4	15.0	31.2	2.30	1.43		

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF13C-24 H26 596
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Original Well Elev)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Original Well Elev)
Well:	WF13C-24 H26 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 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
600.0	8.20	23.10	598.2	33.3	17.2	37.4	1.75	1.30	
645.0	9.00	22.30	642.7	39.5	19.8	44.0	1.80	1.78	
691.0	9.80	23.30	688.1	46.5	22.7	51.4	1.77	1.74	
737.0	10.50	23.50	733.4	53.9	26.0	59.4	1.52	1.52	
783.0	11.70	32.10	778.5	61.7	30.1	68.2	4.44	2.61	
828.0	13.40	32.60	822.4	70.0	35.4	78.0	3.79	3.78	
874.0	15.10	33.80	867.0	79.4	41.6	89.3	3.75	3.70	
920.0	16.80	35.00	911.2	89.8	48.7	102.0	3.76	3.70	
966.0	18.30	37.00	955.1	101.1	56.9	115.8	3.51	3.26	
1,012.0	20.50	36.90	998.5	113.3	66.0	131.0	4.78	4.78	
1,057.0	22.10	36.30	1,040.4	126.4	75.8	147.3	3.59	3.56	
1,103.0	24.20	34.40	1,082.7	141.2	86.2	165.4	4.84	4.57	
1,149.0	25.80	34.20	1,124.4	157.2	97.2	184.8	3.48	3.48	
1,195.0	27.50	34.30	1,165.5	174.3	108.8	205.4	3.70	3.70	
1,240.0	29.00	34.30	1,205.1	191.9	120.8	226.7	3.33	3.33	
1,286.0	30.80	33.70	1,245.0	210.9	133.6	249.6	3.97	3.91	
1,332.0	31.50	33.40	1,284.4	230.7	146.8	273.4	1.56	1.52	
1,378.0	33.10	32.60	1,323.3	251.3	160.2	298.0	3.60	3.48	
1,423.0	34.10	32.60	1,360.7	272.3	173.6	322.9	2.22	2.22	
1,469.0	36.10	32.80	1,398.4	294.6	187.9	349.4	4.36	4.35	
1,515.0	37.40	33.30	1,435.2	317.6	202.9	376.9	2.90	2.83	
1,561.0	39.00	33.40	1,471.4	341.4	218.5	405.3	3.48	3.48	
1,607.0	40.30	34.20	1,506.8	365.8	234.8	434.7	3.04	2.83	
1,706.0	41.10	34.30	1,581.9	419.1	271.2	499.2	0.81	0.81	Last Cathedral Survey @ 1,706' MD
1,800.0	41.20	34.30	1,652.6	470.2	306.0	561.0	0.11	0.11	
1,891.0	42.00	33.00	1,720.7	520.5	339.5	621.4	1.29	0.88	
1,983.0	42.80	32.70	1,788.6	572.6	373.2	683.4	0.90	0.87	
2,075.0	44.10	32.60	1,855.4	625.9	407.3	746.7	1.42	1.41	
2,166.0	45.20	32.40	1,920.2	679.9	441.7	810.7	1.22	1.21	
2,258.0	45.90	31.50	1,984.6	735.6	476.4	876.3	1.03	0.76	
2,349.0	44.90	32.60	2,048.5	790.5	510.8	941.1	1.40	-1.10	
2,441.0	45.70	32.50	2,113.2	845.6	546.0	1,006.5	0.87	0.87	
2,533.0	44.20	31.10	2,178.3	900.8	580.2	1,071.5	1.95	-1.63	
2,624.0	44.80	30.80	2,243.2	955.5	613.0	1,135.3	0.70	0.66	
2,716.0	45.40	30.50	2,308.1	1,011.6	646.2	1,200.4	0.69	0.65	
2,807.0	43.20	31.60	2,373.3	1,066.1	679.0	1,263.9	2.56	-2.42	
2,899.0	43.60	31.60	2,440.1	1,119.9	712.1	1,327.1	0.43	0.43	
2,991.0	44.10	32.00	2,506.5	1,174.1	745.7	1,390.9	0.62	0.54	
3,082.0	44.30	31.40	2,571.7	1,228.0	779.1	1,454.3	0.51	0.22	
3,174.0	44.00	31.50	2,637.7	1,282.7	812.5	1,518.4	0.33	-0.33	
3,265.0	43.20	30.60	2,703.6	1,336.5	844.9	1,581.1	1.11	-0.88	
3,357.0	43.50	33.60	2,770.5	1,390.0	878.4	1,644.3	2.26	0.33	
3,448.0	42.80	32.80	2,836.9	1,442.0	912.5	1,706.5	0.98	-0.77	
3,540.0	43.50	34.20	2,904.0	1,494.5	947.2	1,769.4	1.29	0.76	
3,632.0	43.00	35.10	2,971.0	1,546.4	983.1	1,832.4	0.86	-0.54	
3,723.0	43.90	35.00	3,037.1	1,597.6	1,019.0	1,894.9	0.99	0.99	
3,815.0	44.90	33.90	3,102.8	1,650.7	1,055.4	1,959.2	1.37	1.09	
3,906.0	46.10	33.30	3,166.6	1,704.7	1,091.3	2,024.1	1.40	1.32	
3,998.0	44.40	33.70	3,231.4	1,759.2	1,127.4	2,089.4	1.87	-1.85	
4,089.0	45.00	32.80	3,296.1	1,812.7	1,162.5	2,153.4	0.96	0.66	
4,181.0	43.50	34.10	3,362.0	1,866.3	1,197.9	2,217.6	1.91	-1.63	
4,273.0	42.80	33.00	3,429.1	1,918.7	1,232.6	2,280.5	1.12	-0.76	
4,364.0	43.30	34.10	3,495.6	1,970.5	1,267.0	2,342.6	0.99	0.55	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF13C-24 H26 596
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Original Well Elev)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Original Well Elev)
Well:	WF13C-24 H26 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 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
4,456.0	44.10	33.30	3,562.1	2,023.4	1,302.2	2,406.1	1.06	0.87	
4,548.0	44.60	33.20	3,627.9	2,077.2	1,337.5	2,470.5	0.55	0.54	
4,639.0	45.70	33.00	3,692.1	2,131.2	1,372.7	2,535.0	1.22	1.21	
4,731.0	45.70	31.90	3,756.3	2,186.8	1,408.0	2,600.8	0.86	0.00	
4,822.0	45.00	30.70	3,820.3	2,242.1	1,441.7	2,665.5	1.21	-0.77	
4,914.0	44.00	29.80	3,885.9	2,297.8	1,474.2	2,730.0	1.29	-1.09	
5,005.0	43.70	28.50	3,951.5	2,352.8	1,504.9	2,792.9	1.04	-0.33	
5,097.0	41.40	28.20	4,019.3	2,407.6	1,534.4	2,855.0	2.51	-2.50	
5,188.0	38.70	28.30	4,088.9	2,459.2	1,562.1	2,913.4	2.97	-2.97	
5,280.0	35.00	30.80	4,162.6	2,507.2	1,589.3	2,968.5	4.34	-4.02	
5,371.0	34.30	31.90	4,237.4	2,551.4	1,616.2	3,020.2	1.03	-0.77	
5,463.0	31.50	35.00	4,314.7	2,593.1	1,643.7	3,070.1	3.55	-3.04	
5,555.0	31.20	35.40	4,393.2	2,632.2	1,671.3	3,117.9	0.40	-0.33	
5,646.0	29.20	37.10	4,471.9	2,669.1	1,698.3	3,163.6	2.39	-2.20	
5,738.0	27.60	35.60	4,552.8	2,704.3	1,724.3	3,207.2	1.90	-1.74	
5,829.0	26.70	36.20	4,633.8	2,738.0	1,748.6	3,248.7	1.03	-0.99	
5,921.0	25.20	32.50	4,716.5	2,771.2	1,771.4	3,288.9	2.40	-1.63	
6,012.0	23.40	30.40	4,799.4	2,803.1	1,790.9	3,326.3	2.19	-1.98	
6,104.0	21.20	31.20	4,884.5	2,833.1	1,808.8	3,361.2	2.41	-2.39	
6,195.0	21.80	30.30	4,969.2	2,861.7	1,825.8	3,394.6	0.75	0.66	
6,287.0	21.20	29.80	5,054.8	2,890.9	1,842.7	3,428.3	0.68	-0.65	
6,378.0	19.80	29.60	5,140.0	2,918.6	1,858.5	3,460.1	1.54	-1.54	
6,470.0	18.50	31.10	5,227.0	2,944.7	1,873.7	3,490.2	1.51	-1.41	
6,561.0	15.00	28.90	5,314.1	2,967.3	1,886.9	3,516.4	3.91	-3.85	
6,653.0	11.10	30.10	5,403.7	2,985.4	1,897.1	3,537.2	4.25	-4.24	
6,744.0	8.20	30.00	5,493.4	2,998.6	1,904.7	3,552.4	3.19	-3.19	
6,836.0	5.10	36.50	5,584.8	3,007.6	1,910.4	3,563.1	3.46	-3.37	
6,928.0	1.20	46.60	5,676.6	3,011.6	1,913.6	3,568.1	4.27	-4.24	
7,019.0	1.10	75.40	5,767.6	3,012.4	1,915.1	3,569.6	0.64	-0.11	
7,111.0	0.40	46.20	5,859.6	3,012.9	1,916.2	3,570.6	0.84	-0.76	
7,202.0	0.00	151.60	5,950.6	3,013.1	1,916.4	3,570.9	0.44	-0.44	
7,294.0	0.40	336.60	6,042.6	3,013.4	1,916.3	3,571.1	0.43	0.43	
7,385.0	0.40	122.60	6,133.6	3,013.5	1,916.4	3,571.3	0.84	0.00	
7,477.0	0.30	221.30	6,225.6	3,013.2	1,916.6	3,571.0	0.58	-0.11	
7,568.0	1.10	237.30	6,316.6	3,012.5	1,915.7	3,570.0	0.90	0.88	
7,660.0	1.50	239.40	6,408.6	3,011.4	1,913.9	3,568.1	0.44	0.43	
7,751.0	2.20	270.00	6,499.5	3,010.8	1,911.1	3,566.1	1.30	0.77	
7,843.0	1.50	238.70	6,591.5	3,010.2	1,908.3	3,564.1	1.31	-0.76	
7,935.0	1.30	286.60	6,683.4	3,009.9	1,906.3	3,562.7	1.25	-0.22	
8,026.0	1.30	242.90	6,774.4	3,009.7	1,904.4	3,561.6	1.06	0.00	
8,118.0	1.10	250.40	6,866.4	3,008.9	1,902.6	3,560.0	0.28	-0.22	
8,210.0	1.10	254.80	6,958.4	3,008.4	1,900.9	3,558.6	0.09	0.00	
8,302.0	0.80	350.30	7,050.4	3,008.8	1,900.0	3,558.5	1.54	-0.33	
8,394.0	3.40	60.10	7,142.3	3,010.8	1,902.2	3,561.4	3.49	2.83	
8,485.0	3.10	57.30	7,233.2	3,013.5	1,906.6	3,566.0	0.37	-0.33	
8,577.0	2.20	46.00	7,325.1	3,016.0	1,910.0	3,569.9	1.13	-0.98	
8,668.0	2.50	91.90	7,416.0	3,017.2	1,913.2	3,572.6	2.04	0.33	
8,760.0	1.80	89.90	7,507.9	3,017.1	1,916.7	3,574.4	0.77	-0.76	
8,852.0	1.00	89.10	7,599.9	3,017.1	1,918.9	3,575.7	0.87	-0.87	
8,943.0	0.80	93.30	7,690.9	3,017.1	1,920.4	3,576.4	0.23	-0.22	
9,035.0	0.50	117.30	7,782.9	3,016.9	1,921.4	3,576.7	0.43	-0.33	
9,126.0	0.40	191.90	7,873.9	3,016.4	1,921.7	3,576.5	0.61	-0.11	
9,218.0	0.60	241.80	7,965.9	3,015.8	1,921.2	3,575.8	0.50	0.22	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF13C-24 H26 596
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Original Well Elev)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Original Well Elev)
Well:	WF13C-24 H26 596	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 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
9,310.0	1.40	237.90	8,057.9	3,015.0	1,919.8	3,574.3	0.87	0.87	
9,401.0	1.50	242.20	8,148.8	3,013.9	1,917.8	3,572.3	0.16	0.11	
9,493.0	2.10	244.50	8,240.8	3,012.6	1,915.2	3,569.8	0.66	0.65	
9,584.0	3.10	250.70	8,331.7	3,011.1	1,911.4	3,566.5	1.14	1.10	
9,676.0	1.50	278.10	8,423.6	3,010.4	1,907.8	3,564.0	2.06	-1.74	
9,768.0	2.00	266.30	8,515.6	3,010.5	1,905.0	3,562.6	0.67	0.54	
9,859.0	1.00	85.20	8,606.6	3,010.4	1,904.2	3,562.1	3.30	-1.10	
9,951.0	2.30	134.60	8,698.5	3,009.2	1,906.4	3,562.2	1.97	1.41	
10,042.0	0.40	67.20	8,789.5	3,008.0	1,908.0	3,562.1	2.39	-2.09	
10,134.0	0.30	263.40	8,881.5	3,008.1	1,908.0	3,562.2	0.75	-0.11	
10,225.0	0.70	263.10	8,972.5	3,008.0	1,907.2	3,561.7	0.44	0.44	
10,317.0	1.20	264.90	9,064.5	3,007.9	1,905.7	3,560.8	0.54	0.54	
10,409.0	1.30	269.30	9,156.5	3,007.8	1,903.7	3,559.6	0.15	0.11	Last Cathedral Survey @ 10,409' MD
10,464.0	1.30	269.30	9,211.4	3,007.8	1,902.5	3,558.9	0.00	0.00	Projection to Bit @ 10,464'

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
H26 596 WF13C-24 TG ⁻ - hit/miss target - Shape	0.00	0.00	5,574.0	3,016.2	1,920.0	1,652,254.67	2,260,958.33	39° 35' 41.75 N	108° 7' 22.51 W
- actual wellpath misses target center by 13.8ft at 6826.7ft MD (5575.5 TVD, 3006.9 N, 1909.9 E)									
- Point									
H26 596 WF13C-24 TG ⁻ - actual wellpath misses target center by 3.2ft at 7325.4ft MD (6074.0 TVD, 3013.5 N, 1916.3 E)	0.00	0.00	6,074.0	3,016.2	1,918.0	1,652,254.73	2,260,956.33	39° 35' 41.75 N	108° 7' 22.54 W
- Point									
H26 596 WF13C-24 BHI - actual wellpath misses target center by 3.8ft at 10286.6ft MD (9034.1 TVD, 3007.9 N, 1906.3 E)	0.00	0.00	9,034.0	3,006.2	1,903.0	1,652,245.14	2,260,941.01	39° 35' 41.65 N	108° 7' 22.73 W
- Rectangle (sides W30.0 H50.0 D0.0)									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,706.0	1,581.9	419.1	271.2	Last Cathedral Survey @ 1,706' MD
10,409.0	9,156.5	3,007.8	1,903.7	Last Cathedral Survey @ 10,409' MD
10,464.0	9,211.4	3,007.8	1,902.5	Projection to Bit @ 10,464'

Checked By: _____	Approved By: _____	Date: _____
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