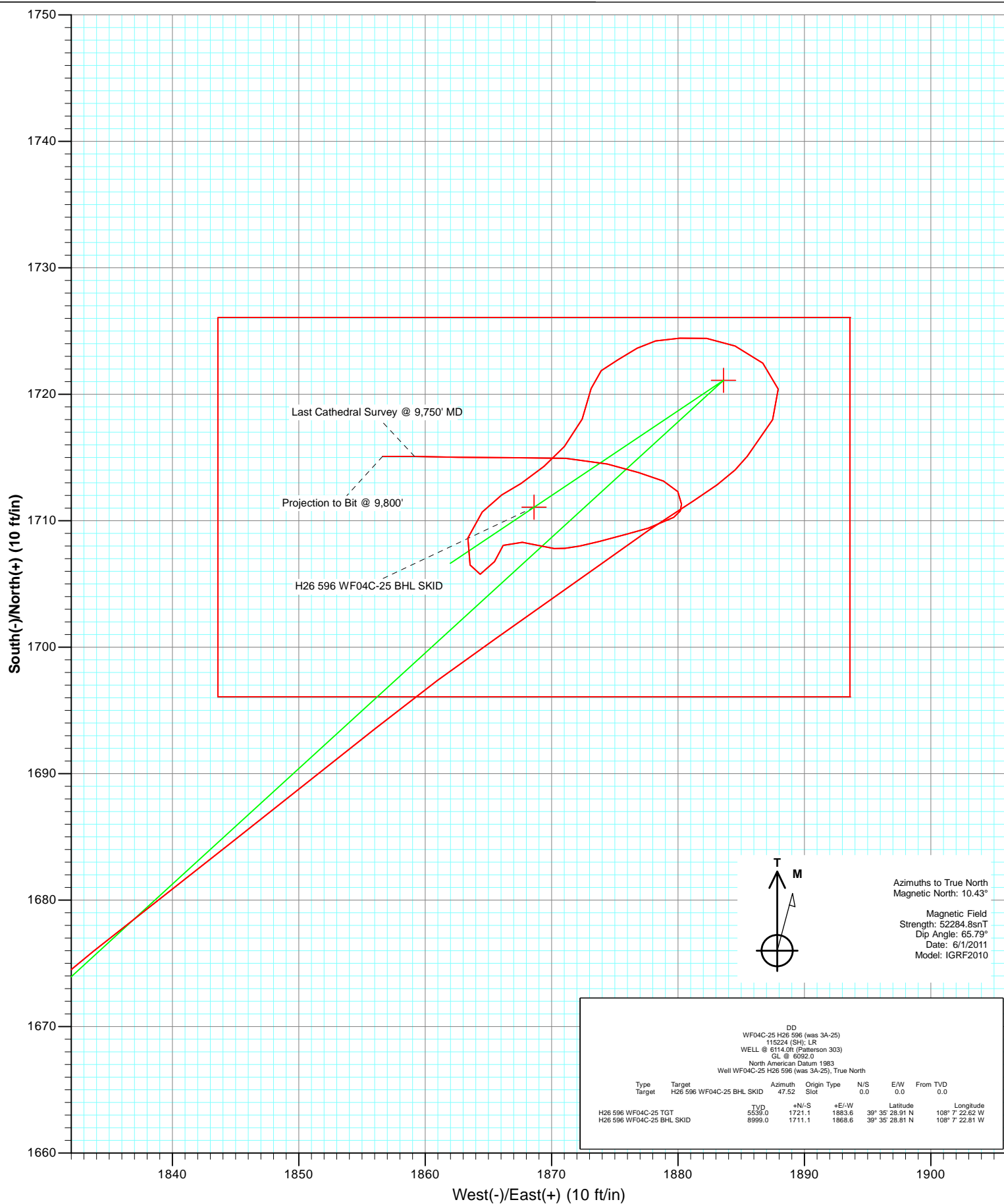


Azimuths to True North
Magnetic North: 10.43°

Magnetic Field
Strength: 52284.8snT
Dip Angle: 65.79°
Date: 6/1/2011
Model: IGRF2010

DD							
WF04C-25 H26 596 (was 3A-25)							
115224 (SH); LR							
WELL @ 6114.0ft. (Platterson 303)							
GL @ 6092.0							
North American Datum 1983							
Well WF04C-25 H26 596 (was 3A-25), True North							
Type	Target	Azimuth	Origin Type	N/S	E/W	From	TVD
Target	H26 596 WF04C-25 BHL SKID	47.52	Slot				0.0
		TVDD	+N/-S	E/-W		Latitude	Longitude
H26 596 WF04C-25 BHL	339.0	1721.1	1868.6	39° 35'	28.91 N	108° 7'	22.62 W
H26 596 WF04C-25 TGT	899.0	1711.1	1868.6	39° 35'	28.91 N	108° 7'	22.62 W



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF04C-25 H26 596 (was 3A-25)
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Patterson 303)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Patterson 303)
Well:	WF04C-25 H26 596 (was 3A-25)	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	WF04C-25 H26 596 (was 3A-25)					
Well Position	+N/-S	0.0 ft	Northing:	1,649,290.42 ft	Latitude:	39° 35' 11.90 N
	+E/-W	0.0 ft	Easting:	2,258,979.89 ft	Longitude:	108° 7' 46.68 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	6/1/2011	10.43	65.79	52,285

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	47.52	

Survey Program	Date	10/10/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
230.0	9,800.0	Survey #1 (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		
230.0	1.50	67.30	230.0	1.2	2.8	2.8	0.65	0.65		
261.0	2.40	70.30	261.0	1.5	3.8	3.8	2.92	2.90		
291.0	3.30	50.90	290.9	2.3	5.0	5.3	4.36	3.00		
322.0	4.30	53.90	321.9	3.5	6.7	7.3	3.29	3.23		
352.0	4.70	55.10	351.8	4.9	8.6	9.6	1.37	1.33		
382.0	5.60	59.30	381.6	6.4	10.8	12.3	3.25	3.00		
412.0	6.50	48.90	411.5	8.2	13.4	15.4	4.72	3.00		
443.0	7.40	49.10	442.2	10.7	16.2	19.2	2.90	2.90		
474.0	8.00	55.50	473.0	13.2	19.5	23.3	3.37	1.94		
504.0	8.40	50.40	502.7	15.8	22.9	27.6	2.77	1.33		
553.0	9.80	47.80	551.0	20.9	28.8	35.3	2.98	2.86		
599.0	10.30	48.90	596.3	26.2	34.8	43.3	1.16	1.09		

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF04C-25 H26 596 (was 3A-25)
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Patterson 303)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Patterson 303)
Well:	WF04C-25 H26 596 (was 3A-25)	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
645.0	11.10	51.50	641.5	31.7	41.3	51.9	2.03	1.74	
690.0	12.00	46.30	685.6	37.6	48.1	60.9	3.06	2.00	
736.0	12.90	46.60	730.5	44.4	55.3	70.8	1.96	1.96	
782.0	14.20	44.40	775.3	52.0	63.0	81.5	3.04	2.83	
828.0	15.60	46.30	819.7	60.3	71.4	93.4	3.22	3.04	
874.0	16.70	49.50	863.9	68.9	80.9	106.1	3.08	2.39	
919.0	18.80	49.30	906.8	77.8	91.3	119.9	4.67	4.67	
965.0	20.70	52.70	950.0	87.5	103.4	135.4	4.83	4.13	
1,011.0	22.90	49.70	992.8	98.3	116.7	152.4	5.36	4.78	
1,057.0	23.70	54.50	1,035.0	109.4	131.0	170.5	4.48	1.74	
1,103.0	25.20	55.10	1,076.9	120.4	146.6	189.4	3.31	3.26	
1,148.0	26.10	54.60	1,117.4	131.6	162.5	208.7	2.06	2.00	
1,194.0	27.60	53.50	1,158.5	143.8	179.3	229.4	3.43	3.26	
1,240.0	28.70	53.20	1,199.0	156.8	196.7	251.0	2.41	2.39	
1,285.0	30.50	50.70	1,238.2	170.5	214.2	273.1	4.85	4.00	
1,331.0	31.30	49.90	1,277.6	185.6	232.4	296.7	1.96	1.74	
1,377.0	32.80	47.10	1,316.6	201.7	250.7	321.1	4.59	3.26	
1,423.0	32.80	47.00	1,355.3	218.7	268.9	346.0	0.12	0.00	
1,469.0	32.50	44.50	1,394.0	236.0	286.7	370.8	3.00	-0.65	
1,514.0	32.00	43.30	1,432.1	253.3	303.3	394.8	1.81	-1.11	
1,560.0	31.60	44.40	1,471.2	270.8	320.1	419.0	1.53	-0.87	
1,606.0	32.00	44.40	1,510.3	288.1	337.1	443.2	0.87	0.87	
1,680.0	31.00	43.40	1,573.4	316.0	363.9	481.8	1.52	-1.35	
1,801.0	31.40	41.10	1,676.9	362.4	406.0	544.2	1.04	0.33	
1,893.0	30.80	42.50	1,755.7	397.8	437.7	591.5	1.02	-0.65	
1,984.0	31.60	44.80	1,833.5	431.9	470.2	638.5	1.58	0.88	
2,076.0	31.60	47.80	1,911.9	465.2	505.1	686.7	1.71	0.00	
2,168.0	32.60	47.90	1,989.8	498.0	541.3	735.6	1.09	1.09	
2,259.0	33.40	48.30	2,066.1	531.1	578.2	785.1	0.91	0.88	
2,351.0	32.40	47.40	2,143.4	564.6	615.3	835.1	1.21	-1.09	
2,442.0	33.20	46.70	2,219.8	598.2	651.3	884.4	0.97	0.88	
2,534.0	34.30	48.70	2,296.3	632.6	689.2	935.5	1.70	1.20	
2,626.0	33.70	47.60	2,372.6	666.9	727.5	986.9	0.93	-0.65	
2,717.0	34.80	48.00	2,447.8	701.3	765.4	1,038.1	1.23	1.21	
2,809.0	33.30	47.70	2,524.1	735.9	803.6	1,089.6	1.64	-1.63	
2,900.0	31.80	47.50	2,600.8	768.9	839.8	1,138.6	1.65	-1.65	
2,992.0	32.80	49.90	2,678.5	801.3	876.7	1,187.7	1.77	1.09	
3,083.0	34.70	49.90	2,754.2	833.9	915.4	1,238.3	2.09	2.09	
3,175.0	33.40	50.60	2,830.4	866.8	955.0	1,289.7	1.48	-1.41	
3,267.0	34.30	49.60	2,906.8	899.7	994.3	1,340.9	1.15	0.98	
3,358.0	33.00	49.60	2,982.6	932.4	1,032.7	1,391.3	1.43	-1.43	
3,450.0	33.70	45.80	3,059.4	966.4	1,070.1	1,441.8	2.39	0.76	
3,541.0	32.70	46.70	3,135.6	1,000.9	1,106.0	1,491.7	1.23	-1.10	
3,633.0	30.60	46.20	3,213.9	1,034.1	1,141.0	1,539.9	2.30	-2.28	
3,724.0	31.60	45.60	3,291.8	1,066.9	1,174.8	1,586.9	1.15	1.10	
3,816.0	30.60	44.70	3,370.6	1,100.4	1,208.5	1,634.4	1.20	-1.09	
3,907.0	30.60	45.50	3,448.9	1,133.1	1,241.3	1,680.7	0.45	0.00	
3,999.0	27.50	44.80	3,529.3	1,164.6	1,273.0	1,725.3	3.39	-3.37	
4,091.0	27.10	45.90	3,611.1	1,194.2	1,303.0	1,767.5	0.70	-0.43	
4,182.0	27.80	49.80	3,691.8	1,222.3	1,334.1	1,809.4	2.12	0.77	
4,274.0	29.60	48.90	3,772.5	1,251.1	1,367.6	1,853.5	2.01	1.96	
4,366.0	29.50	49.00	3,852.6	1,280.9	1,401.8	1,898.9	0.12	-0.11	
4,457.0	28.60	48.50	3,932.1	1,310.1	1,435.0	1,943.1	1.02	-0.99	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF04C-25 H26 596 (was 3A-25)
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Patterson 303)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Patterson 303)
Well:	WF04C-25 H26 596 (was 3A-25)	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
4,549.0	28.80	49.00	4,012.8	1,339.2	1,468.3	1,987.2	0.34	0.22	
4,640.0	28.20	48.80	4,092.8	1,367.7	1,501.0	2,030.7	0.67	-0.66	
4,732.0	28.50	49.10	4,173.8	1,396.4	1,533.9	2,074.3	0.36	0.33	
4,824.0	28.50	47.70	4,254.6	1,425.6	1,566.7	2,118.2	0.73	0.00	
4,915.0	26.50	47.70	4,335.3	1,453.8	1,597.8	2,160.2	2.20	-2.20	
5,007.0	24.60	46.80	4,418.3	1,480.8	1,627.0	2,199.9	2.11	-2.07	
5,098.0	23.20	46.10	4,501.5	1,506.2	1,653.7	2,236.8	1.57	-1.54	
5,190.0	22.40	45.10	4,586.3	1,531.1	1,679.2	2,272.4	0.97	-0.87	
5,281.0	20.80	44.20	4,670.9	1,554.9	1,702.7	2,305.9	1.80	-1.76	
5,372.0	20.20	44.80	4,756.2	1,577.7	1,725.0	2,337.7	0.70	-0.66	
5,464.0	18.70	48.30	4,842.9	1,598.7	1,747.3	2,368.3	2.06	-1.63	
5,556.0	17.90	47.20	4,930.3	1,618.2	1,768.6	2,397.2	0.95	-0.87	
5,647.0	16.50	50.20	5,017.2	1,635.9	1,788.8	2,424.1	1.82	-1.54	
5,739.0	13.40	47.90	5,106.1	1,651.4	1,806.8	2,447.8	3.43	-3.37	
5,831.0	11.50	45.90	5,195.9	1,665.0	1,821.3	2,467.6	2.12	-2.07	
5,922.0	9.60	51.90	5,285.4	1,676.0	1,833.8	2,484.3	2.41	-2.09	
6,013.0	8.80	51.70	5,375.2	1,685.0	1,845.2	2,498.8	0.88	-0.88	
6,105.0	8.40	51.50	5,466.2	1,693.5	1,856.0	2,512.5	0.44	-0.43	
6,197.0	6.50	55.50	5,557.4	1,700.6	1,865.5	2,524.4	2.14	-2.07	
6,288.0	6.40	53.90	5,647.8	1,706.5	1,873.9	2,534.5	0.23	-0.11	
6,380.0	4.70	58.00	5,739.4	1,711.6	1,881.2	2,543.3	1.90	-1.85	
6,471.0	2.40	35.60	5,830.2	1,715.1	1,885.5	2,548.8	2.91	-2.53	
6,563.0	2.00	33.80	5,922.1	1,718.0	1,887.5	2,552.3	0.44	-0.43	
6,654.0	1.50	337.80	6,013.1	1,720.4	1,887.9	2,554.2	1.87	-0.55	
6,746.0	1.50	320.70	6,105.1	1,722.5	1,886.7	2,554.7	0.48	0.00	
6,837.0	1.90	287.10	6,196.0	1,723.8	1,884.5	2,554.0	1.16	0.44	
6,929.0	1.00	280.40	6,288.0	1,724.4	1,882.3	2,552.8	0.99	-0.98	
7,020.0	1.70	264.50	6,379.0	1,724.4	1,880.1	2,551.2	0.87	0.77	
7,112.0	0.70	261.60	6,471.0	1,724.2	1,878.2	2,549.6	1.09	-1.09	
7,203.0	1.30	241.40	6,561.9	1,723.6	1,876.8	2,548.2	0.75	0.66	
7,295.0	0.90	235.20	6,653.9	1,722.7	1,875.3	2,546.5	0.45	-0.43	
7,386.0	1.10	238.70	6,744.9	1,721.9	1,873.9	2,544.9	0.23	0.22	
7,478.0	1.20	182.30	6,836.9	1,720.5	1,873.1	2,543.3	1.19	0.11	
7,570.0	2.00	204.80	6,928.9	1,718.0	1,872.4	2,541.2	1.09	0.87	
7,661.0	1.30	226.10	7,019.8	1,715.9	1,871.0	2,538.7	1.01	-0.77	
7,753.0	1.50	225.30	7,111.8	1,714.3	1,869.4	2,536.4	0.22	0.22	
7,844.0	1.40	241.80	7,202.8	1,712.9	1,867.6	2,534.2	0.47	-0.11	
7,936.0	0.80	235.70	7,294.7	1,712.0	1,866.1	2,532.4	0.66	-0.65	
8,027.0	1.80	225.50	7,385.7	1,710.7	1,864.5	2,530.4	1.12	1.10	
8,119.0	1.30	185.60	7,477.7	1,708.6	1,863.4	2,528.2	1.26	-0.54	
8,211.0	1.40	166.00	7,569.7	1,706.5	1,863.6	2,526.9	0.51	0.11	
8,302.0	0.80	57.10	7,660.7	1,705.8	1,864.4	2,527.0	2.00	-0.66	
8,394.0	1.10	42.90	7,752.6	1,706.8	1,865.5	2,528.5	0.41	0.33	
8,486.0	0.80	6.30	7,844.6	1,708.1	1,866.2	2,529.8	0.72	-0.33	
8,577.0	1.90	105.10	7,935.6	1,708.3	1,867.7	2,531.1	2.39	1.21	
8,669.0	1.30	95.30	8,027.6	1,707.8	1,870.2	2,532.6	0.71	-0.65	
8,760.0	3.30	75.40	8,118.5	1,708.4	1,873.8	2,535.6	2.33	2.20	
8,852.0	1.70	73.80	8,210.4	1,709.4	1,877.6	2,539.2	1.74	-1.74	
8,943.0	1.10	56.40	8,301.4	1,710.3	1,879.7	2,541.3	0.80	-0.66	
9,035.0	0.70	347.70	8,393.4	1,711.3	1,880.3	2,542.4	1.16	-0.43	
9,127.0	0.60	338.80	8,485.4	1,712.3	1,880.0	2,542.9	0.15	-0.11	
9,218.0	1.30	291.80	8,576.4	1,713.1	1,878.9	2,542.6	1.09	0.77	
9,310.0	1.30	286.20	8,668.3	1,713.8	1,876.9	2,541.6	0.14	0.00	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well WF04C-25 H26 596 (was 3A-25)
Project:	North Piceance	TVD Reference:	WELL @ 6114.0ft (Patterson 303)
Site:	H26 596	MD Reference:	WELL @ 6114.0ft (Patterson 303)
Well:	WF04C-25 H26 596 (was 3A-25)	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
9,402.0	1.90	284.30	8,760.3	1,714.5	1,874.4	2,540.2	0.65	0.65	
9,493.0	2.30	272.40	8,851.2	1,714.9	1,871.1	2,538.1	0.65	0.44	
9,585.0	3.00	269.30	8,943.1	1,715.0	1,866.9	2,535.0	0.78	0.76	
9,676.0	2.40	272.20	9,034.0	1,715.0	1,862.6	2,531.9	0.68	-0.66	
9,750.0	2.90	270.00	9,107.9	1,715.1	1,859.2	2,529.4	0.69	0.68	Last Cathedral Survey @ 9,750' MD Projection to Bit @ 9,800'
9,800.0	2.90	270.00	9,157.9	1,715.1	1,856.6	2,527.5	0.00	0.00	

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
H26 596 WF04C-25 TG` - survey misses target center by 29.2ft at 6182.2ft MD (5542.7 TVD, 1699.7 N, 1864.1 E) - Point	0.00	0.00	5,539.0	1,721.1	1,883.6	1,650,956.29	2,260,912.51	39° 35' 28.91 N	108° 7' 22.62 W
H26 596 WF04C-25 BHI - survey misses target center by 6.0ft at 9640.7ft MD (8998.8 TVD, 1715.0 N, 1864.1 E) - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	8,999.0	1,711.1	1,868.6	1,650,946.69	2,260,897.24	39° 35' 28.81 N	108° 7' 22.81 W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,750.0	9,107.9	1,715.1	1,859.2	Last Cathedral Survey @ 9,750' MD
9,800.0	9,157.9	1,715.1	1,856.6	Projection to Bit @ 9,800'

Checked By: _____ Approved By: _____ Date: _____