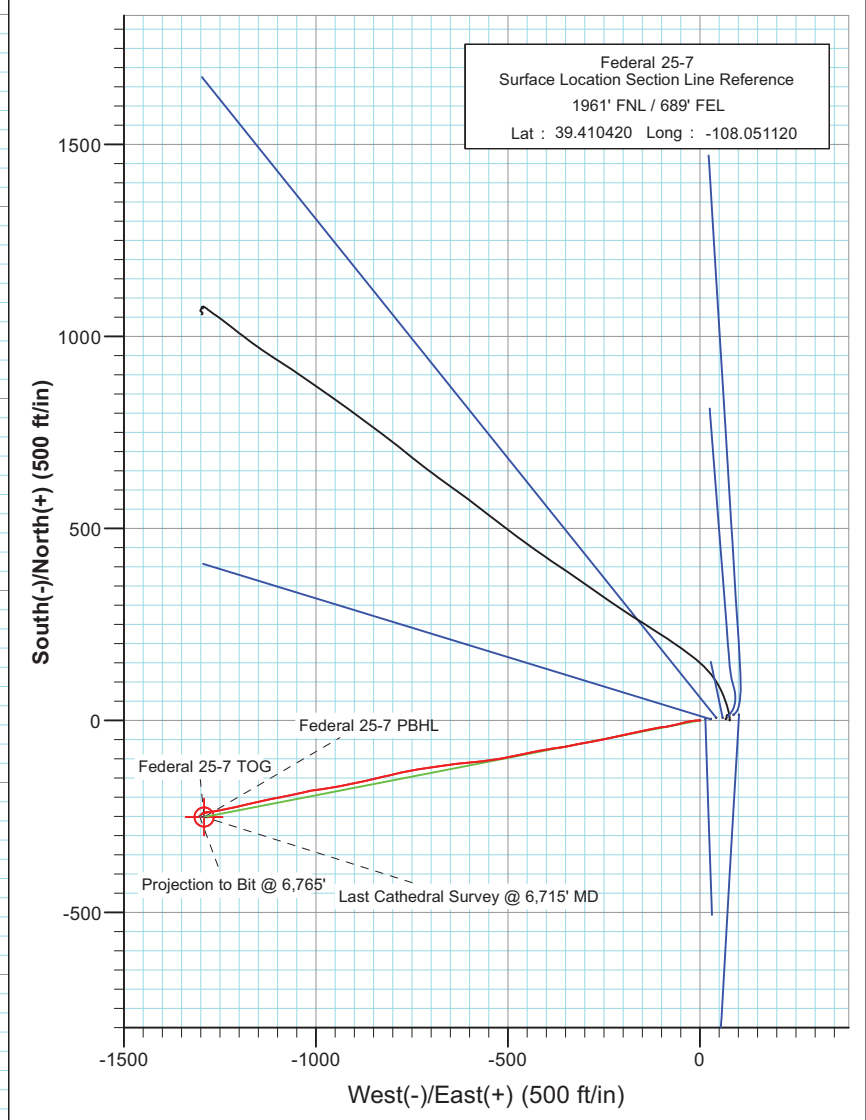
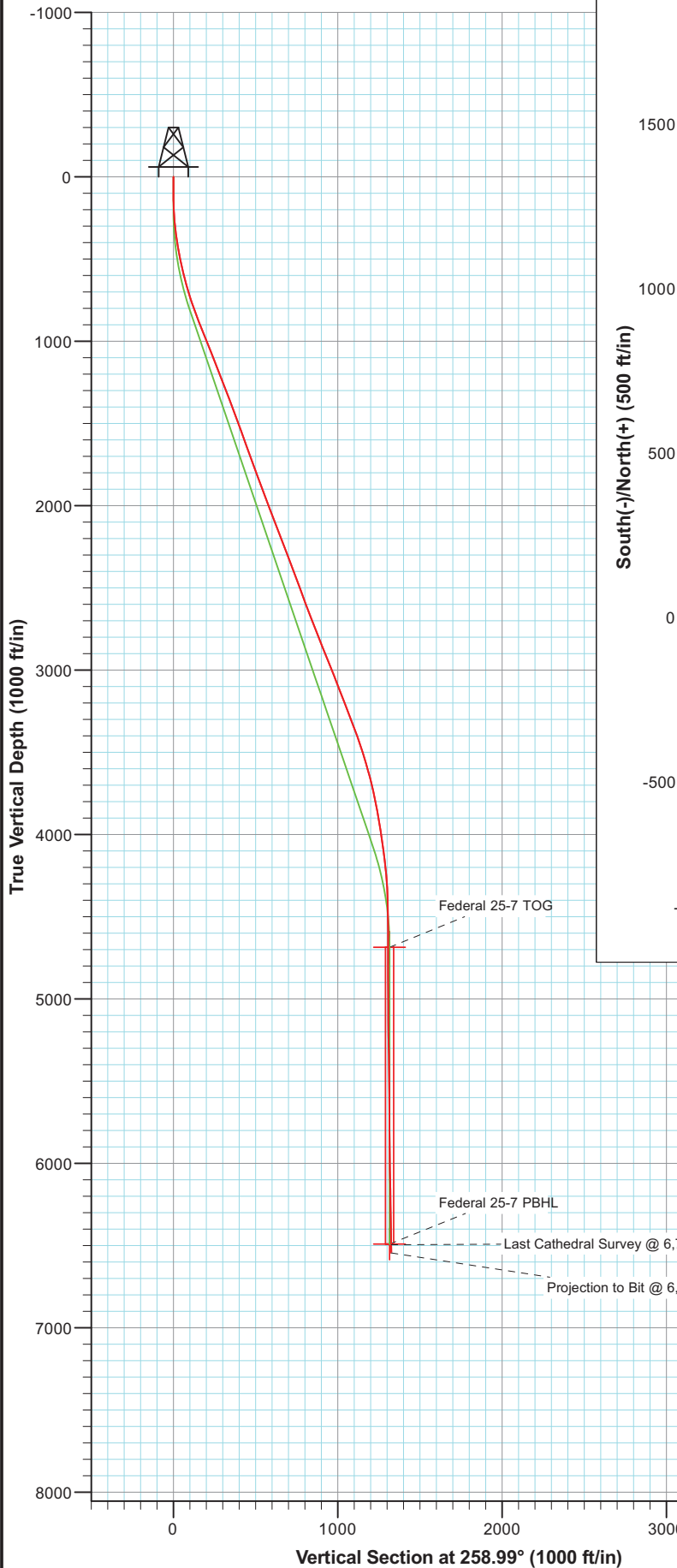




Project: S. Piceance (Parachute)
 Site: SENE Sec25-T7S-R95W (PH-25)
 Well: Federal 25-7
 Wellbore: DD
 Plan: FINAL

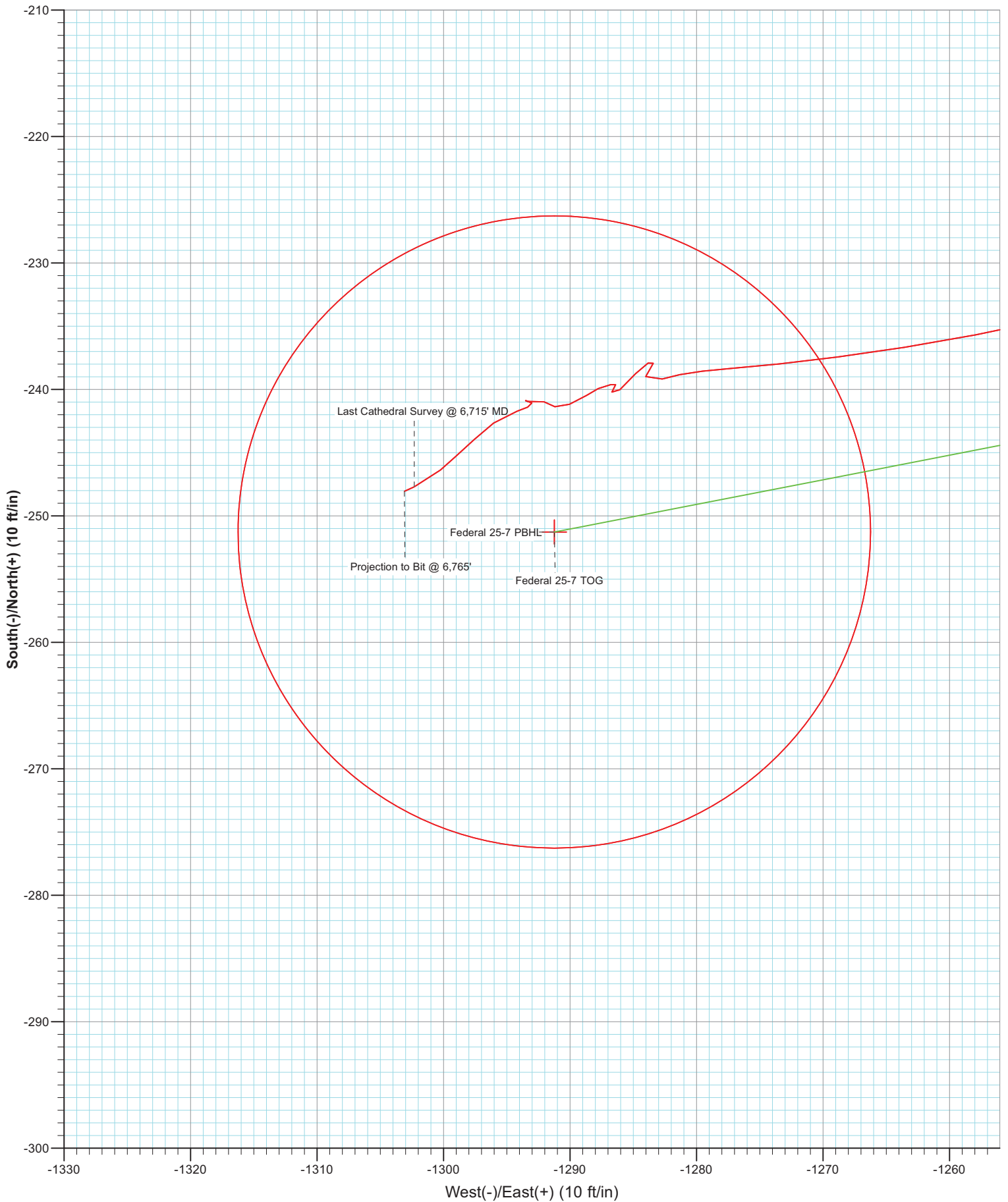


Azimuths to True North
 Magnetic North: 10.42°
 Magnetic Field
 Strength: 52240.4nT
 Dip Angle: 65.67°
 Date: 1/3/2011
 Model: IGRF2010

DD Federal 25-7 105418 (SH) 105559 (MH); KR					
WELL @ 6086.0ft (Ensign 119) North American Datum 1983 Well Federal 25-7, True North					
Target	Federal 25-7 PBHL	Azimuth 258.99	Origin Type Slot	N/S 0.0	E/W 0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Federal 25-7 TOG	4686.0	-249	-1291	39.409730	-108.055690
Federal 25-7 PBHL	6491.0	-251.3	-1291.2	39.409730	-108.055690



Project: S. Piceance (Parachute)
Site: SENE Sec25-T7S-R95W (PH-25)
Well: Federal 25-7
Wellbore: DD
Plan: FINAL



Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Federal 25-7
Project: S. Piceance (Parachute)	TVD Reference: WELL @ 6086.0ft (Ensign 119)
Site: SENE Sec25-T7S-R96W (PH-25)	MD Reference: WELL @ 6086.0ft (Ensign 119)
Well: Federal 25-7	North Reference: True
Wellbore: DD	Survey Calculation Method: Minimum Curvature
Design: DD	Database: USA EDM 5000 Multi Users DB

Project S. Piceance (Parachute), Garfield County, CO		
Map System: US State Plane 1983	System Datum: Mean Sea Level	
Geo Datum: North American Datum 1983		
Map Zone: Colorado Central Zone		

Site SENE Sec25-T7S-R96W (PH-25)				
Site Position:	Northing: 1,584,503.36 ft	Latitude: 39.410440		
From: Lat/Long	Easting: 2,279,392.91 ft	Longitude: -108.050780		
Position Uncertainty: 0.0 ft	Slot Radius: 0.000in	Grid Convergence: -1.61 °		

Well Federal 25-7				
Well Position	+N/-S 0.0 ft	Northing: 1,584,498.77 ft	Latitude: 39.410420	
	+E/-W 0.0 ft	Easting: 2,279,296.68 ft	Longitude: -108.051120	
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 6,064.0 ft	

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/3/2011	10.42	65.67	52,240

Design DD				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	258.99

Survey Program		Date 1/8/2011
From (ft)	To (ft)	Survey (Wellbore)
113.0	6,765.0	Survey #1 (DD)
		Tool Name MWD
		Description 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	
113.0	0.60	255.40	113.0	-0.1	-0.6	0.6	0.53	0.53	
143.0	0.90	280.40	143.0	-0.1	-1.0	1.0	1.46	1.00	
173.0	2.00	280.40	173.0	0.0	-1.7	1.7	3.67	3.67	
203.0	3.00	272.90	203.0	0.1	-3.0	2.9	3.50	3.33	
233.0	4.00	268.30	232.9	0.1	-4.8	4.7	3.46	3.33	
263.0	4.80	269.00	262.8	0.1	-7.1	7.0	2.67	2.67	
293.0	5.80	266.60	292.7	0.0	-9.9	9.7	3.41	3.33	
323.0	6.70	264.30	322.5	-0.3	-13.2	13.0	3.11	3.00	
354.0	7.80	263.40	353.3	-0.7	-17.0	16.9	3.57	3.55	
444.0	10.50	256.30	442.1	-3.4	-31.1	31.2	3.25	3.00	
535.0	11.80	256.50	531.4	-7.5	-48.2	48.7	1.43	1.43	
626.0	14.20	257.00	620.0	-12.2	-68.1	69.2	2.64	2.64	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Federal 25-7
Project:	S. Piceance (Parachute)	TD Reference:	WELL @ 6086.0ft (Ensign 119)
Site:	SENE Sec25-T7S-R96W (PH-25)	MVD Reference:	WELL @ 6086.0ft (Ensign 119)
Well:	Federal 25-7	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
717.0	17.20	262.10	707.6	-16.5	-92.3	93.8	3.63	3.30	
808.0	20.00	259.30	793.9	-21.3	-120.9	122.8	3.23	3.08	
899.0	21.10	257.90	879.1	-27.6	-152.3	154.7	1.32	1.21	
990.0	21.70	256.90	963.8	-34.9	-184.7	187.9	0.77	0.66	
1,082.0	21.70	257.90	1,049.3	-42.3	-217.9	221.9	0.40	0.00	
1,120.0	22.10	258.60	1,084.6	-45.2	-231.7	236.1	1.26	1.05	
1,246.0	21.60	259.20	1,201.5	-54.2	-277.7	283.0	0.43	-0.40	
1,339.0	20.90	259.40	1,288.2	-60.4	-310.9	316.7	0.76	-0.75	
1,432.0	20.00	258.60	1,375.3	-66.6	-342.8	349.2	1.01	-0.97	
1,526.0	20.70	262.50	1,463.5	-72.0	-375.0	381.8	1.62	0.74	
1,619.0	19.60	260.00	1,550.8	-76.8	-406.7	413.8	1.50	-1.18	
1,713.0	20.00	257.80	1,639.2	-83.0	-437.9	445.7	0.90	0.43	
1,806.0	20.30	259.00	1,726.5	-89.4	-469.3	477.7	0.55	0.32	
1,899.0	19.90	258.50	1,813.9	-95.7	-500.6	509.7	0.47	-0.43	
1,992.0	20.60	260.90	1,901.1	-101.4	-532.3	541.8	1.17	0.75	
2,085.0	20.60	263.20	1,988.2	-105.9	-564.7	574.5	0.87	0.00	
2,179.0	21.30	265.30	2,075.9	-109.3	-598.1	608.0	1.09	0.74	
2,272.0	21.90	262.70	2,162.4	-112.9	-632.2	642.1	1.21	0.65	
2,366.0	20.50	263.20	2,250.1	-117.0	-665.9	676.0	1.50	-1.49	
2,459.0	20.40	260.60	2,337.2	-121.6	-698.1	708.4	0.98	-0.11	
2,552.0	20.20	261.60	2,424.4	-126.6	-729.9	740.7	0.43	-0.22	
2,646.0	20.40	258.20	2,512.6	-132.3	-762.0	773.3	1.27	0.21	
2,739.0	20.70	256.60	2,599.7	-139.5	-793.9	805.9	0.68	0.32	
2,832.0	21.50	258.60	2,686.4	-146.6	-826.6	839.4	1.16	0.86	
2,926.0	21.40	256.00	2,773.9	-154.2	-860.1	873.7	1.02	-0.11	
3,019.0	21.60	257.00	2,860.5	-162.1	-893.2	907.8	0.45	0.22	
3,112.0	22.10	259.40	2,946.8	-169.2	-927.1	942.4	1.10	0.54	
3,206.0	22.10	261.40	3,033.9	-175.1	-962.0	977.7	0.80	0.00	
3,299.0	20.90	261.60	3,120.4	-180.1	-995.7	1,011.8	1.29	-1.29	
3,392.0	20.80	257.60	3,207.3	-186.1	-1,028.2	1,044.9	1.53	-0.11	
3,485.0	21.40	258.10	3,294.1	-193.2	-1,061.0	1,078.3	0.67	0.65	
3,579.0	20.00	257.90	3,382.0	-200.1	-1,093.5	1,111.5	1.49	-1.49	
3,673.0	18.10	258.20	3,470.9	-206.4	-1,123.5	1,142.2	2.02	-2.02	
3,766.0	16.50	257.70	3,559.6	-212.2	-1,150.5	1,169.9	1.73	-1.72	
3,860.0	14.90	258.40	3,650.1	-217.5	-1,175.4	1,195.3	1.71	-1.70	
3,953.0	12.30	255.80	3,740.5	-222.3	-1,196.7	1,217.2	2.87	-2.80	
4,046.0	10.60	256.10	3,831.7	-226.8	-1,214.6	1,235.6	1.83	-1.83	
4,140.0	10.30	260.00	3,924.1	-230.3	-1,231.3	1,252.6	0.82	-0.32	
4,233.0	8.00	257.40	4,015.9	-233.2	-1,245.8	1,267.4	2.51	-2.47	
4,326.0	7.30	259.30	4,108.1	-235.7	-1,257.9	1,279.8	0.80	-0.75	
4,420.0	6.20	262.70	4,201.4	-237.4	-1,268.8	1,290.8	1.24	-1.17	
4,513.0	4.40	265.70	4,294.0	-238.3	-1,277.4	1,299.4	1.96	-1.94	
4,606.0	2.30	252.60	4,386.9	-239.2	-1,282.7	1,304.8	2.39	-2.26	
4,700.0	1.10	34.20	4,480.8	-239.0	-1,284.0	1,306.0	3.44	-1.28	
4,793.0	0.40	14.90	4,573.8	-237.9	-1,283.4	1,305.2	0.79	-0.75	
4,887.0	0.70	238.80	4,667.8	-237.9	-1,283.8	1,305.6	1.09	0.32	
4,980.0	0.90	222.80	4,760.8	-238.7	-1,284.8	1,306.8	0.32	0.22	
5,073.0	1.30	225.60	4,853.8	-240.0	-1,286.1	1,308.2	0.43	0.43	
5,167.0	0.70	13.50	4,947.8	-240.2	-1,286.7	1,308.9	2.05	-0.64	
5,260.0	0.20	80.40	5,040.8	-239.6	-1,286.4	1,308.5	0.70	-0.54	
5,353.0	0.70	267.90	5,133.8	-239.6	-1,286.8	1,308.9	0.97	0.54	
5,447.0	0.60	233.00	5,227.8	-239.9	-1,287.8	1,309.9	0.43	-0.11	
5,540.0	0.70	246.20	5,320.8	-240.5	-1,288.7	1,310.9	0.19	0.11	

Cathedral Energy Services

Survey Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well Federal 25-7
Project: S. Piceance (Parachute)	TVD Reference: WELL @ 6086.0ft (Ensign 119)
Site: SENE Sec25-T7S-R96W (PH-25)	MD Reference: WELL @ 6086.0ft (Ensign 119)
Well: Federal 25-7	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
5,633.0	1.20	240.50	5,413.8	-241.2	-1,290.0	1,312.4	0.55	0.54	
5,727.0	0.50	314.30	5,507.8	-241.4	-1,291.2	1,313.5	1.24	-0.74	
5,820.0	0.70	280.40	5,600.8	-241.0	-1,292.0	1,314.3	0.43	0.22	
5,913.0	0.90	265.00	5,693.8	-240.9	-1,293.3	1,315.5	0.31	0.22	
6,006.0	0.70	77.50	5,786.8	-240.9	-1,293.5	1,315.7	1.72	-0.22	
6,100.0	0.40	193.60	5,880.7	-241.1	-1,293.0	1,315.3	1.01	-0.32	
6,193.0	1.40	253.30	5,973.7	-241.7	-1,294.2	1,316.5	1.34	1.08	
6,286.0	1.20	231.60	6,066.7	-242.7	-1,296.0	1,318.5	0.57	-0.22	
6,379.0	1.30	227.60	6,159.7	-244.0	-1,297.6	1,320.3	0.14	0.11	
6,473.0	1.10	227.70	6,253.7	-245.3	-1,299.0	1,322.0	0.21	-0.21	
6,566.0	0.90	228.80	6,346.7	-246.4	-1,300.2	1,323.4	0.22	-0.22	
6,715.0	1.00	245.30	6,495.6	-247.7	-1,302.3	1,325.6	0.19	0.07	Last Cathedral Survey @ 6,715' MD
6,765.0	1.00	245.30	6,545.6	-248.1	-1,303.1	1,326.5	0.00	0.00	Projection to Bit @ 6,765'

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Federal 25-7 TOG - hit/miss target - Shape	0.00	0.00	4,686.0	-251.3	-1,291.2	1,584,283.85	2,277,998.90	39.409730	-108.055690
- survey misses target center by 15.1ft at 4905.4ft MD (4686.2 TVD, -238.0 N, -1284.0 E)									
- Point									
Federal 25-7 PBHL - hit/miss target - Shape	0.00	0.00	6,491.0	-251.3	-1,291.2	1,584,283.85	2,277,998.90	39.409730	-108.055690
- survey misses target center by 11.6ft at 6710.2ft MD (6490.9 TVD, -247.7 N, -1302.2 E)									
- Circle (radius 25.0)									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,715.0	6,495.6	-247.7	-1,302.3	Last Cathedral Survey @ 6,715' MD
6,765.0	6,545.6	-248.1	-1,303.1	Projection to Bit @ 6,765'

Checked By: _____	Approved By: _____	Date: _____
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