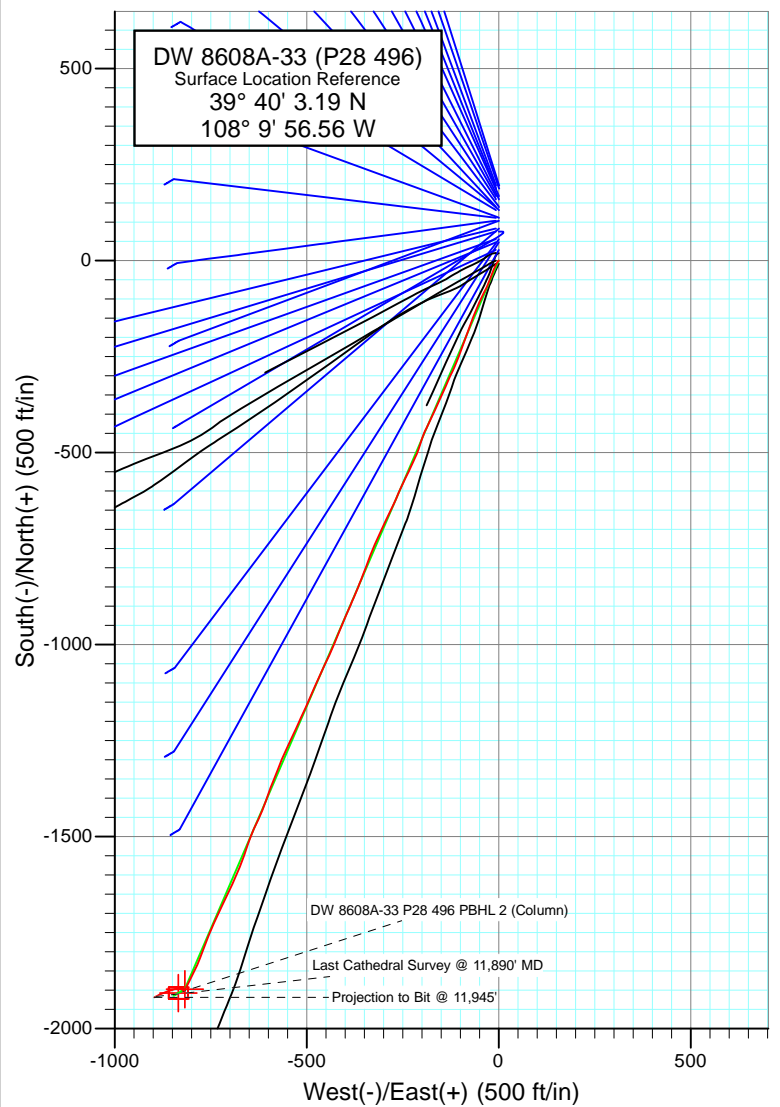




Project: Double Willow
 Site: S28-T4S-R96W (P28 496)(column pattern)
 Well: DW 8608A-33 (P28 496)
 Wellbore: DD
 Design: FINAL



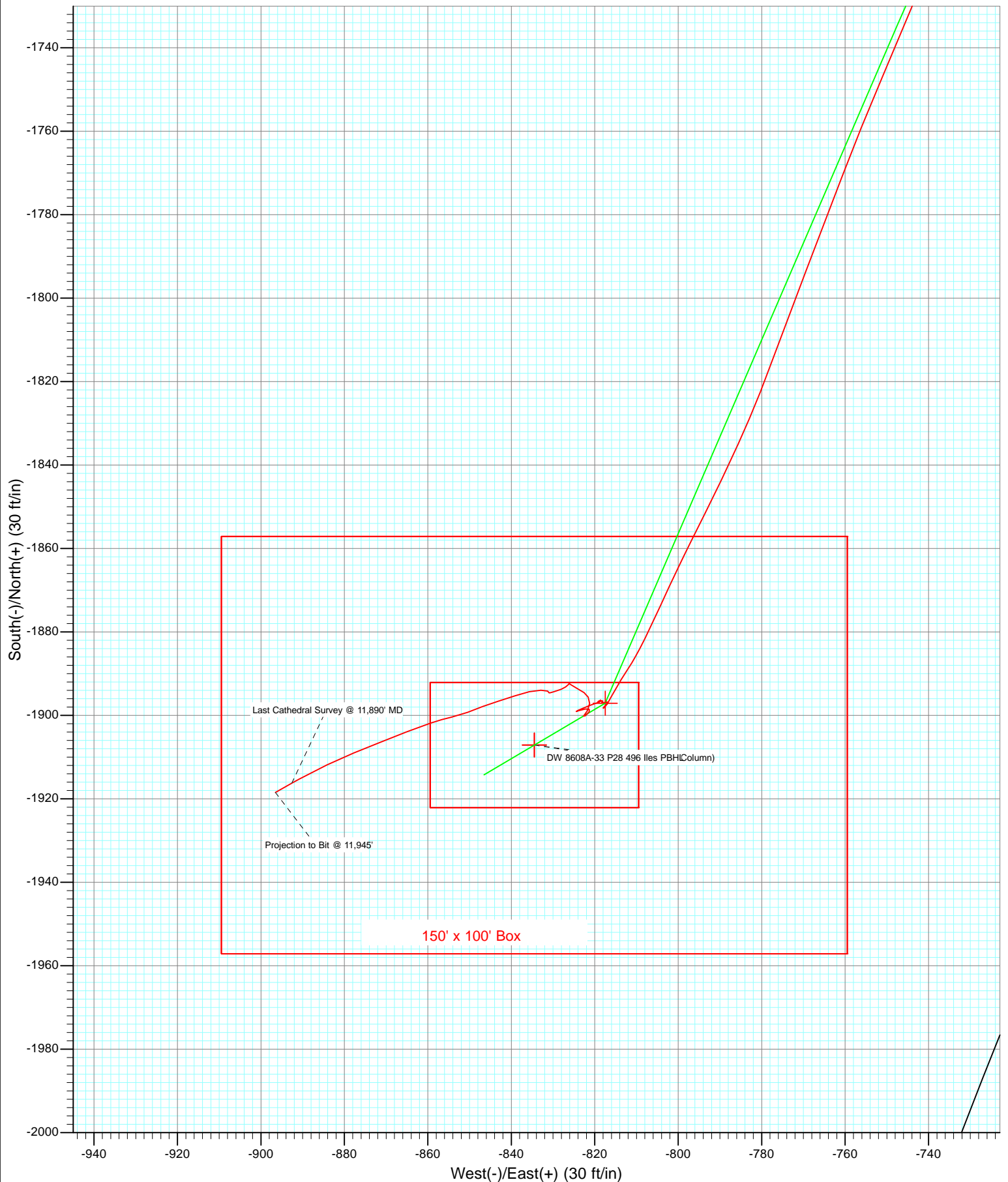
Azimuths to True North
 Magnetic North: 10.43°

Magnetic Field
 Strength: 52291.0snT
 Dip Angle: 65.84°
 Date: 8/10/2011
 Model: IGRF2010

DD DW 8608A-33 (P28 496) 115327, 98455; LR						
KBE @ 7813.0ft (Patterson 308) North American Datum 1983 Well DW 8608A-33 (P28 496), True North						
Type Target	Target DW 8608A-33 P28 496 PBHL (Column)	Azimuth 203.63	Origin Type Slot	N/S 0.0	E/W 0.0	From TVD 0.0
Name	TV	+N/-S	+E/-W	Latitude	Longitude	
DW 8608A-33 P28 496 TGT 2 (Column)	7032.0	-1897.1	-817.5	39° 39' 44.44 N	108° 10' 7.02 W	
DW 8608A-33 P28 496 PBHL 2 (Column)	10612.0	-1907.1	-834.5	39° 39' 44.34 N	108° 10' 7.23 W	



Project: Double Willow
Site: S28-T4S-R96W (P28 496)(column pattern)
Well: DW 8608A-33 (P28 496)
Wellbore: DD
Design: FINAL



Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DW 8608A-33 (P28 496)
Project:	Double Willow	TVD Reference:	KBE @ 7813.0ft (Patterson 308)
Site:	S28-T4S-R96W (P28 496)(column pattern)	MD Reference:	KBE @ 7813.0ft (Patterson 308)
Well:	DW 8608A-33 (P28 496)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 Multi Users DB

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

Site	S28-T4S-R96W (P28 496)(column pattern)				
Site Position:		Northing:	1,679,243.29 ft	Latitude:	39° 40' 5.13 N
From:	Lat/Long	Easting:	2,249,687.54 ft	Longitude:	108° 9' 56.55 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	DW 8608A-33 (P28 496)					
Well Position	+N/-S	0.0 ft	Northing:	1,679,047.43 ft	Latitude:	39° 40' 3.19 N
	+E/-W	0.0 ft	Easting:	2,249,680.66 ft	Longitude:	108° 9' 56.56 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,780.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/10/2011	10.43	65.84	52,291

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	203.63	

Survey Program	Date	8/22/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
171.0	2,055.0	Survey #1 (DD)	MWD	Geolink MWD	
2,162.0	11,945.0	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		
171.0	0.10	20.70	171.0	0.1	0.1	-0.1	0.06	0.06		
202.0	0.10	11.90	202.0	0.2	0.1	-0.2	0.05	0.00		
232.0	0.30	345.60	232.0	0.3	0.1	-0.3	0.72	0.67		
263.0	0.60	247.70	263.0	0.3	-0.1	-0.2	2.28	0.97		
294.0	0.90	224.20	294.0	0.1	-0.4	0.1	1.37	0.97		
324.0	1.40	217.00	324.0	-0.4	-0.8	0.7	1.73	1.67		
355.0	2.00	216.50	355.0	-1.1	-1.4	1.6	1.94	1.94		
386.0	2.80	220.10	385.9	-2.1	-2.2	2.8	2.62	2.58		
416.0	3.90	214.10	415.9	-3.5	-3.2	4.5	3.84	3.67		
446.0	4.70	215.00	445.8	-5.4	-4.5	6.7	2.68	2.67		
477.0	5.30	207.80	476.7	-7.7	-5.9	9.4	2.80	1.94		

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DW 8608A-33 (P28 496)
Project:	Double Willow	TVD Reference:	KBE @ 7813.0ft (Patterson 308)
Site:	S28-T4S-R96W (P28 496)(column pattern)	MD Reference:	KBE @ 7813.0ft (Patterson 308)
Well:	DW 8608A-33 (P28 496)	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
508.0	6.00	207.30	507.5	-10.4	-7.3	12.5	2.26	2.26	
540.0	6.90	206.00	539.3	-13.6	-8.9	16.1	2.85	2.81	
572.0	8.50	203.30	571.1	-17.5	-10.7	20.3	5.12	5.00	
602.0	9.30	202.70	600.7	-21.8	-12.5	25.0	2.68	2.67	
633.0	10.00	202.10	631.3	-26.6	-14.5	30.2	2.28	2.26	
664.0	11.10	201.50	661.7	-31.9	-16.6	35.9	3.57	3.55	
694.0	12.00	201.10	691.1	-37.5	-18.8	41.9	3.01	3.00	
724.0	12.50	201.40	720.4	-43.4	-21.1	48.2	1.68	1.67	
754.0	13.10	200.70	749.7	-49.6	-23.5	54.9	2.07	2.00	
785.0	14.00	201.70	779.8	-56.4	-26.1	62.1	3.00	2.90	
831.0	14.70	203.40	824.4	-66.9	-30.5	73.5	1.78	1.52	
877.0	16.30	206.80	868.7	-78.0	-35.7	85.8	4.00	3.48	
923.0	18.00	207.50	912.7	-90.1	-41.9	99.3	3.72	3.70	
968.0	20.00	204.20	955.2	-103.3	-48.3	114.0	5.04	4.44	
1,060.0	20.90	202.20	1,041.4	-132.8	-60.9	146.1	1.24	0.98	
1,152.0	20.70	199.50	1,127.4	-163.3	-72.5	178.7	1.06	-0.22	
1,244.0	20.70	200.60	1,213.5	-193.9	-83.7	211.2	0.42	0.00	
1,335.0	19.60	199.40	1,298.9	-223.3	-94.4	242.5	1.29	-1.21	
1,427.0	18.30	201.30	1,385.9	-251.4	-104.8	272.3	1.56	-1.41	
1,473.0	17.30	202.20	1,429.7	-264.4	-110.0	286.3	2.25	-2.17	
1,518.0	17.00	204.80	1,472.7	-276.6	-115.3	299.6	1.83	-0.67	
1,564.0	17.10	203.90	1,516.7	-288.9	-120.8	313.1	0.61	0.22	
1,610.0	17.90	204.60	1,560.6	-301.5	-126.5	326.9	1.80	1.74	
1,657.0	18.70	204.20	1,605.2	-314.9	-132.6	341.7	1.72	1.70	
1,702.0	19.30	204.60	1,647.7	-328.3	-138.7	356.3	1.36	1.33	
1,747.0	19.90	204.20	1,690.1	-342.0	-144.9	371.4	1.37	1.33	
1,793.0	20.00	203.50	1,733.4	-356.4	-151.3	387.1	0.56	0.22	
1,839.0	20.30	203.80	1,776.6	-370.9	-157.6	403.0	0.69	0.65	
1,885.0	20.30	205.00	1,819.7	-385.4	-164.2	418.9	0.91	0.00	
1,977.0	19.90	205.90	1,906.1	-414.0	-177.8	450.5	0.55	-0.43	
2,055.0	18.90	205.30	1,979.7	-437.3	-189.0	476.4	1.31	-1.28	Last Cathedral Survey @ 2,055' MD
2,162.0	15.10	198.90	2,082.0	-466.2	-200.9	507.6	3.95	-3.55	
2,253.0	14.90	197.10	2,169.9	-488.6	-208.2	531.1	0.56	-0.22	
2,345.0	16.50	205.30	2,258.5	-511.7	-217.3	555.9	2.97	1.74	
2,437.0	17.70	204.10	2,346.4	-536.3	-228.6	582.9	1.36	1.30	
2,528.0	18.70	206.60	2,432.8	-562.0	-240.7	611.3	1.39	1.10	
2,619.0	21.40	204.50	2,518.3	-590.1	-254.2	642.5	3.07	2.97	
2,711.0	21.70	202.70	2,603.9	-621.1	-267.7	676.3	0.79	0.33	
2,803.0	22.30	206.50	2,689.2	-652.4	-282.0	710.7	1.68	0.65	
2,894.0	21.80	205.70	2,773.5	-683.1	-297.1	744.9	0.64	-0.55	
2,986.0	20.80	204.00	2,859.3	-713.4	-311.1	778.3	1.28	-1.09	
3,077.0	18.50	204.50	2,945.0	-741.3	-323.7	808.9	2.53	-2.53	
3,169.0	18.10	199.70	3,032.3	-768.0	-334.5	837.7	1.69	-0.43	
3,260.0	18.40	201.10	3,118.7	-794.7	-344.5	866.2	0.58	0.33	
3,351.0	17.90	201.20	3,205.2	-821.2	-354.7	894.5	0.55	-0.55	
3,443.0	20.40	202.50	3,292.1	-849.2	-366.0	924.7	2.76	2.72	
3,534.0	19.20	202.10	3,377.7	-877.7	-377.7	955.5	1.33	-1.32	
3,626.0	21.40	203.60	3,464.0	-907.1	-390.1	987.4	2.46	2.39	
3,717.0	20.50	203.50	3,549.0	-936.9	-403.1	1,019.9	0.99	-0.99	
3,809.0	22.20	202.20	3,634.7	-967.8	-416.1	1,053.4	1.92	1.85	
3,900.0	20.30	202.60	3,719.5	-998.3	-428.6	1,086.4	2.09	-2.09	
3,991.0	20.60	204.80	3,804.7	-1,027.4	-441.4	1,118.2	0.91	0.33	
4,083.0	18.90	205.60	3,891.3	-1,055.5	-454.6	1,149.2	1.87	-1.85	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DW 8608A-33 (P28 496)
Project:	Double Willow	TVD Reference:	KBE @ 7813.0ft (Patterson 308)
Site:	S28-T4S-R96W (P28 496)(column pattern)	MD Reference:	KBE @ 7813.0ft (Patterson 308)
Well:	DW 8608A-33 (P28 496)	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
4,174.0	20.40	203.70	3,977.0	-1,083.3	-467.4	1,179.8	1.79	1.65	
4,266.0	19.50	204.20	4,063.5	-1,112.0	-480.1	1,211.2	1.00	-0.98	
4,358.0	17.80	203.20	4,150.7	-1,139.0	-492.0	1,240.6	1.88	-1.85	
4,449.0	18.20	205.00	4,237.2	-1,164.6	-503.4	1,268.8	0.75	0.44	
4,540.0	19.40	203.80	4,323.4	-1,191.3	-515.5	1,298.1	1.39	1.32	
4,632.0	18.30	205.40	4,410.4	-1,218.4	-527.9	1,327.8	1.32	-1.20	
4,724.0	19.20	204.80	4,497.5	-1,245.1	-540.4	1,357.4	1.00	0.98	
4,815.0	18.20	205.80	4,583.7	-1,271.5	-552.9	1,386.5	1.15	-1.10	
4,907.0	18.70	201.50	4,671.0	-1,298.2	-564.6	1,415.6	1.58	0.54	
4,998.0	17.30	201.80	4,757.6	-1,324.3	-574.9	1,443.7	1.54	-1.54	
5,090.0	17.80	202.30	4,845.3	-1,350.0	-585.4	1,471.5	0.57	0.54	
5,181.0	19.00	199.70	4,931.6	-1,376.8	-595.6	1,500.1	1.60	1.32	
5,273.0	17.20	199.30	5,019.1	-1,403.8	-605.2	1,528.6	1.96	-1.96	
5,364.0	18.30	202.60	5,105.7	-1,429.7	-615.1	1,556.3	1.64	1.21	
5,456.0	17.00	205.40	5,193.4	-1,455.2	-626.4	1,584.2	1.69	-1.41	
5,548.0	17.10	203.30	5,281.4	-1,479.7	-637.5	1,611.2	0.68	0.11	
5,639.0	17.60	201.20	5,368.2	-1,504.8	-647.8	1,638.3	0.88	0.55	
5,731.0	18.70	197.60	5,455.6	-1,531.9	-657.3	1,666.9	1.71	1.20	
5,822.0	19.00	201.40	5,541.8	-1,559.6	-667.1	1,696.2	1.39	0.33	
5,914.0	20.20	202.80	5,628.4	-1,588.2	-678.7	1,727.1	1.40	1.30	
6,005.0	18.20	203.20	5,714.4	-1,615.7	-690.4	1,757.0	2.20	-2.20	
6,097.0	20.10	205.10	5,801.3	-1,643.2	-702.8	1,787.1	2.17	2.07	
6,189.0	18.80	205.80	5,888.0	-1,670.9	-716.0	1,817.8	1.44	-1.41	
6,280.0	17.40	207.30	5,974.5	-1,696.2	-728.6	1,846.0	1.62	-1.54	
6,372.0	18.20	202.70	6,062.1	-1,721.7	-740.4	1,874.1	1.76	0.87	
6,464.0	16.90	202.90	6,149.8	-1,747.2	-751.2	1,901.8	1.41	-1.41	
6,555.0	15.80	201.10	6,237.2	-1,771.0	-760.8	1,927.4	1.33	-1.21	
6,647.0	14.90	200.80	6,325.9	-1,793.7	-769.5	1,951.8	0.98	-0.98	
6,739.0	14.40	200.30	6,414.9	-1,815.5	-777.7	1,975.0	0.56	-0.54	
6,830.0	12.40	204.50	6,503.4	-1,835.0	-785.6	1,996.1	2.44	-2.20	
6,922.0	10.60	206.80	6,593.6	-1,851.6	-793.6	2,014.4	2.02	-1.96	
7,014.0	7.30	205.70	6,684.4	-1,864.4	-799.9	2,028.7	3.59	-3.59	
7,105.0	5.70	204.10	6,774.8	-1,873.7	-804.3	2,039.0	1.77	-1.76	
7,196.0	5.30	206.50	6,865.4	-1,881.6	-808.0	2,047.7	0.51	-0.44	
7,288.0	2.90	211.60	6,957.2	-1,887.4	-811.1	2,054.2	2.64	-2.61	
7,380.0	3.00	213.30	7,049.0	-1,891.4	-813.6	2,058.9	0.14	0.11	
7,471.0	3.00	206.60	7,139.9	-1,895.5	-816.0	2,063.7	0.39	0.00	
7,563.0	1.20	231.50	7,231.9	-1,898.3	-817.8	2,066.9	2.15	-1.96	
7,654.0	1.10	43.70	7,322.9	-1,898.2	-818.0	2,066.9	2.52	-0.11	
7,746.0	0.70	42.20	7,414.8	-1,897.2	-817.0	2,065.6	0.44	-0.43	
7,837.0	0.40	265.00	7,505.8	-1,896.8	-816.9	2,065.2	1.13	-0.33	
7,929.0	0.90	259.80	7,597.8	-1,896.9	-818.0	2,065.7	0.55	0.54	
8,020.0	0.50	59.90	7,688.8	-1,896.9	-818.3	2,065.8	1.52	-0.44	
8,112.0	0.20	317.30	7,780.8	-1,896.5	-818.1	2,065.4	0.63	-0.33	
8,203.0	0.30	247.30	7,871.8	-1,896.5	-818.4	2,065.5	0.33	0.11	
8,295.0	0.70	246.30	7,963.8	-1,896.8	-819.2	2,066.1	0.43	0.43	
8,386.0	0.80	50.20	8,054.8	-1,896.7	-819.2	2,066.0	1.63	0.11	
8,478.0	0.20	128.10	8,146.8	-1,896.3	-818.6	2,065.4	0.85	-0.65	
8,569.0	0.50	227.30	8,237.8	-1,896.7	-818.7	2,065.8	0.62	0.33	
8,660.0	0.70	262.20	8,328.8	-1,897.1	-819.6	2,066.5	0.45	0.22	
8,752.0	1.20	245.80	8,420.8	-1,897.5	-821.0	2,067.5	0.61	0.54	
8,843.0	1.60	247.60	8,511.8	-1,898.4	-823.1	2,069.1	0.44	0.44	
8,935.0	0.30	226.30	8,603.8	-1,899.1	-824.4	2,070.3	1.44	-1.41	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DW 8608A-33 (P28 496)
Project:	Double Willow	TVD Reference:	KBE @ 7813.0ft (Patterson 308)
Site:	S28-T4S-R96W (P28 496)(column pattern)	MD Reference:	KBE @ 7813.0ft (Patterson 308)
Well:	DW 8608A-33 (P28 496)	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
9,026.0	1.10	66.30	8,694.8	-1,898.9	-823.8	2,069.9	1.52	0.88	
9,118.0	0.90	86.20	8,786.7	-1,898.5	-822.3	2,068.9	0.43	-0.22	
9,210.0	0.30	119.50	8,878.7	-1,898.5	-821.3	2,068.6	0.73	-0.65	
9,301.0	0.60	200.50	8,969.7	-1,899.1	-821.3	2,069.1	0.69	0.33	
9,393.0	1.20	235.40	9,061.7	-1,900.1	-822.2	2,070.4	0.86	0.65	
9,484.0	0.80	38.60	9,152.7	-1,900.1	-822.6	2,070.6	2.18	-0.44	
9,576.0	1.20	31.50	9,244.7	-1,898.8	-821.7	2,069.0	0.45	0.43	
9,667.0	1.10	0.20	9,335.7	-1,897.1	-821.2	2,067.2	0.69	-0.11	
9,759.0	0.90	331.70	9,427.7	-1,895.6	-821.6	2,066.0	0.58	-0.22	
9,850.0	1.00	303.50	9,518.7	-1,894.5	-822.6	2,065.4	0.52	0.11	
9,942.0	1.40	299.10	9,610.6	-1,893.6	-824.2	2,065.2	0.45	0.43	
10,034.0	0.70	305.00	9,702.6	-1,892.7	-825.7	2,064.9	0.77	-0.76	
10,126.0	0.00	206.50	9,794.6	-1,892.4	-826.1	2,064.8	0.76	-0.76	
10,217.0	0.40	220.80	9,885.6	-1,892.6	-826.3	2,065.1	0.44	0.44	
10,309.0	0.70	235.20	9,977.6	-1,893.2	-827.0	2,065.9	0.36	0.33	
10,400.0	0.80	245.90	10,068.6	-1,893.7	-828.0	2,066.9	0.19	0.11	
10,492.0	1.50	254.20	10,160.6	-1,894.3	-829.8	2,068.1	0.78	0.76	
10,584.0	0.10	1.40	10,252.6	-1,894.6	-830.9	2,068.8	1.67	-1.52	
10,675.0	0.60	313.30	10,343.6	-1,894.2	-831.3	2,068.6	0.59	0.55	
10,767.0	1.60	265.10	10,435.6	-1,894.0	-832.9	2,069.0	1.39	1.09	
10,858.0	1.90	259.70	10,526.5	-1,894.3	-835.7	2,070.5	0.38	0.33	
10,950.0	2.60	250.60	10,618.5	-1,895.3	-839.1	2,072.7	0.85	0.76	
11,042.0	2.50	253.30	10,710.4	-1,896.6	-843.0	2,075.5	0.17	-0.11	
11,133.0	2.60	249.80	10,801.3	-1,897.9	-846.9	2,078.2	0.20	0.11	
11,224.0	2.30	247.70	10,892.2	-1,899.3	-850.5	2,080.9	0.34	-0.33	
11,316.0	2.70	258.20	10,984.1	-1,900.4	-854.3	2,083.5	0.66	0.43	
11,408.0	3.70	250.80	11,076.0	-1,901.8	-859.2	2,086.8	1.17	1.09	
11,499.0	4.10	248.90	11,166.8	-1,904.0	-865.1	2,091.1	0.46	0.44	
11,591.0	4.30	248.40	11,258.5	-1,906.4	-871.3	2,095.8	0.22	0.22	
11,683.0	4.30	247.70	11,350.3	-1,909.0	-877.7	2,100.7	0.06	0.00	
11,774.0	4.60	244.10	11,441.0	-1,911.9	-884.2	2,106.0	0.45	0.33	
11,866.0	4.80	241.90	11,532.7	-1,915.3	-890.9	2,111.8	0.29	0.22	
11,890.0	4.70	240.50	11,556.6	-1,916.3	-892.6	2,113.4	0.64	-0.42	Last Cathedral Survey @ 11,890' MD Projection to Bit @ 11,945'
11,945.0	4.70	240.50	11,611.4	-1,918.5	-896.5	2,117.0	0.00	0.00	

Cathedral Energy Services

Survey Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well DW 8608A-33 (P28 496)
Project:	Double Willow	TVD Reference:	KBE @ 7813.0ft (Patterson 308)
Site:	S28-T4S-R96W (P28 496)(column pattern)	MD Reference:	KBE @ 7813.0ft (Patterson 308)
Well:	DW 8608A-33 (P28 496)	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	DD	Database:	USA EDM 5000 Multi Users DB

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)		
DW 8608A-33 P28 496 I	0.00	0.00	11,612.0	-1,907.1	-834.5	1,677,165.63	2,248,790.61	39° 39' 44.34 N	108° 10' 7.23 W
- actual wellpath misses target center by 63.0ft at 11940.7ft MD (11607.1 TVD, -1918.3 N, -896.2 E)									
- Rectangle (sides W100.0 H150.0 D0.0)									
DW 8608A-33 P28 496 ^	0.00	0.00	7,032.0	-1,897.1	-817.5	1,677,175.16	2,248,807.85	39° 39' 44.44 N	108° 10' 7.02 W
- actual wellpath misses target center by 7.8ft at 7363.3ft MD (7032.4 TVD, -1890.7 N, -813.2 E)									
- Point									
DW 8608A-33 P28 496 ^	0.00	0.00	6,963.0	-1,897.1	-817.5	1,677,175.16	2,248,807.85	39° 39' 44.44 N	108° 10' 7.02 W
- actual wellpath misses target center by 11.3ft at 7294.4ft MD (6963.6 TVD, -1887.7 N, -811.3 E)									
- Point									
DW 8608A-33 P28 496 I	0.00	0.00	10,612.0	-1,907.1	-834.5	1,677,165.63	2,248,790.61	39° 39' 44.34 N	108° 10' 7.23 W
- actual wellpath misses target center by 12.7ft at 10943.5ft MD (10612.0 TVD, -1895.2 N, -838.9 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
DW 8608A-33 P28 496 I	0.00	0.00	10,623.0	-1,907.1	-834.5	1,677,165.63	2,248,790.61	39° 39' 44.34 N	108° 10' 7.23 W
- actual wellpath misses target center by 12.7ft at 10954.5ft MD (10623.0 TVD, -1895.4 N, -839.3 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
2,055.0	1,979.7	-437.3	-189.0	Last Cathedral Survey @ 2,055' MD
11,890.0	11,556.6	-1,916.3	-892.6	Last Cathedral Survey @ 11,890' MD
11,945.0	11,611.4	-1,918.5	-896.5	Projection to Bit @ 11,945'

Checked By: _____ Approved By: _____ Date: _____