



# Cathedral Energy Services

## Planning Report

<b>Database:</b>	EDM 5000.1 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S28-T4S-R96W (P28 496)(column pattern)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Project:</b>	Double Willow	<b>MD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Site:</b>	S28-T4S-R96W (P28 496)(column pattern)	<b>North Reference:</b>	True
<b>Well:</b>	DW 8609D-28 (P28 496)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

<b>Project</b>	Double Willow		
<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		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 8609D-28 (P28 496)					
Well Position	+N/-S	-36.0 ft	Northing:	1,679,207.57 ft	Latitude:	39° 40' 4.77 N
	+E/-W	-8.2 ft	Easting:	2,249,678.31 ft	Longitude:	108° 9' 56.65 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,771.0 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</b>
			(°)	(°)	(nT)
	IGRF2010	12/1/2010	10.52	65.86	52,361

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<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	-36.0	-8.2	326.18

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-36.0	-8.2	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	-36.0	-8.2	0.00	0.00	0.00	0.00	
753.4	13.60	326.91	749.1	8.9	-37.4	3.00	3.00	0.00	326.91	
6,865.5	13.60	326.91	6,689.9	1,213.2	-822.1	0.00	0.00	0.00	0.00	
7,318.9	0.00	0.00	7,139.0	1,258.0	-851.4	3.00	-3.00	0.00	180.00	DW 8609D-28 P28 496
7,444.3	0.31	239.57	7,264.3	1,257.9	-851.7	0.25	0.25	-96.08	239.57	
10,979.0	0.31	239.57	10,799.0	1,248.1	-868.3	0.00	0.00	0.00	0.00	DW 8609D-28 P28 496
12,229.0	0.31	239.57	12,049.0	1,244.6	-874.2	0.00	0.00	0.00	0.00	
12,479.0	0.31	239.57	12,299.0	1,243.9	-875.4	0.00	0.00	0.00	0.00	

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<b>Project:</b>	Double Willow	<b>MD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Site:</b>	S28-T4S-R96W (P28 496)(column pattern)	<b>North Reference:</b>	True
<b>Well:</b>	DW 8609D-28 (P28 496)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	-36.0	-8.2	0.0	0.00	0.00	
99.0	0.00	0.00	99.0	-36.0	-8.2	0.0	0.00	0.00	Para Creek (TVD)
100.0	0.00	0.00	100.0	-36.0	-8.2	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	-36.0	-8.2	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	-36.0	-8.2	0.0	0.00	0.00	KOP @ 300' MD
399.0	2.97	326.91	399.0	-33.8	-9.6	2.6	3.00	3.00	Mahog Bench (TVD)
400.0	3.00	326.91	400.0	-33.8	-9.6	2.6	3.00	3.00	
459.2	4.78	326.91	459.0	-30.4	-11.8	6.6	3.00	3.00	Base B Groove (TVD)
500.0	6.00	326.91	499.6	-27.2	-13.9	10.5	3.00	3.00	
600.0	9.00	326.91	598.8	-16.3	-21.0	23.5	3.00	3.00	
700.0	12.00	326.91	697.1	-1.0	-31.0	41.7	3.00	3.00	
753.4	13.60	326.91	749.1	8.9	-37.4	53.6	3.00	3.00	EOB; Inc=13.60°
800.0	13.60	326.91	794.4	18.1	-43.4	64.5	0.00	0.00	
900.0	13.60	326.91	891.6	37.8	-56.2	88.0	0.00	0.00	
1,000.0	13.60	326.91	988.8	57.5	-69.1	111.5	0.00	0.00	
1,100.0	13.60	326.91	1,086.0	77.2	-81.9	135.1	0.00	0.00	
1,200.0	13.60	326.91	1,183.2	96.9	-94.8	158.6	0.00	0.00	
1,300.0	13.60	326.91	1,280.4	116.6	-107.6	182.1	0.00	0.00	
1,400.0	13.60	326.91	1,377.6	136.3	-120.4	205.6	0.00	0.00	
1,500.0	13.60	326.91	1,474.8	156.0	-133.3	229.1	0.00	0.00	
1,600.0	13.60	326.91	1,572.0	175.7	-146.1	252.6	0.00	0.00	
1,700.0	13.60	326.91	1,669.2	195.4	-159.0	276.2	0.00	0.00	
1,800.0	13.60	326.91	1,766.4	215.1	-171.8	299.7	0.00	0.00	
1,900.0	13.60	326.91	1,863.6	234.8	-184.6	323.2	0.00	0.00	
2,000.0	13.60	326.91	1,960.8	254.5	-197.5	346.7	0.00	0.00	
2,100.0	13.60	326.91	2,058.0	274.2	-210.3	370.2	0.00	0.00	
2,200.0	13.60	326.91	2,155.2	293.9	-223.1	393.7	0.00	0.00	
2,300.0	13.60	326.91	2,252.4	313.6	-236.0	417.2	0.00	0.00	
2,400.0	13.60	326.91	2,349.6	333.3	-248.8	440.8	0.00	0.00	
2,500.0	13.60	326.91	2,446.8	353.0	-261.7	464.3	0.00	0.00	
2,600.0	13.60	326.91	2,544.0	372.7	-274.5	487.8	0.00	0.00	
2,700.0	13.60	326.91	2,641.2	392.4	-287.3	511.3	0.00	0.00	
2,800.0	13.60	326.91	2,738.4	412.1	-300.2	534.8	0.00	0.00	
2,900.0	13.60	326.91	2,835.6	431.8	-313.0	558.3	0.00	0.00	
3,000.0	13.60	326.91	2,932.7	451.5	-325.9	581.8	0.00	0.00	
3,100.0	13.60	326.91	3,029.9	471.2	-338.7	605.4	0.00	0.00	
3,200.0	13.60	326.91	3,127.1	490.9	-351.5	628.9	0.00	0.00	
3,300.0	13.60	326.91	3,224.3	510.6	-364.4	652.4	0.00	0.00	
3,400.0	13.60	326.91	3,321.5	530.3	-377.2	675.9	0.00	0.00	
3,500.0	13.60	326.91	3,418.7	550.1	-390.0	699.4	0.00	0.00	
3,600.0	13.60	326.91	3,515.9	569.8	-402.9	722.9	0.00	0.00	
3,700.0	13.60	326.91	3,613.1	589.5	-415.7	746.4	0.00	0.00	
3,800.0	13.60	326.91	3,710.3	609.2	-428.6	770.0	0.00	0.00	
3,900.0	13.60	326.91	3,807.5	628.9	-441.4	793.5	0.00	0.00	
4,000.0	13.60	326.91	3,904.7	648.6	-454.2	817.0	0.00	0.00	
4,097.0	13.60	326.91	3,999.0	667.7	-466.7	839.8	0.00	0.00	Was G (TVD)
4,100.0	13.60	326.91	4,001.9	668.3	-467.1	840.5	0.00	0.00	
4,200.0	13.60	326.91	4,099.1	688.0	-479.9	864.0	0.00	0.00	
4,300.0	13.60	326.91	4,196.3	707.7	-492.8	887.5	0.00	0.00	
4,400.0	13.60	326.91	4,293.5	727.4	-505.6	911.0	0.00	0.00	
4,500.0	13.60	326.91	4,390.7	747.1	-518.4	934.6	0.00	0.00	
4,600.0	13.60	326.91	4,487.9	766.8	-531.3	958.1	0.00	0.00	

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<b>Project:</b>	Double Willow	<b>MD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Site:</b>	S28-T4S-R96W (P28 496)(column pattern)	<b>North Reference:</b>	True
<b>Well:</b>	DW 8609D-28 (P28 496)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,700.0	13.60	326.91	4,585.1	786.5	-544.1	981.6	0.00	0.00	
4,800.0	13.60	326.91	4,682.3	806.2	-557.0	1,005.1	0.00	0.00	
4,900.0	13.60	326.91	4,779.5	825.9	-569.8	1,028.6	0.00	0.00	
5,000.0	13.60	326.91	4,876.7	845.6	-582.6	1,052.1	0.00	0.00	
5,100.0	13.60	326.91	4,973.9	865.3	-595.5	1,075.6	0.00	0.00	
5,200.0	13.60	326.91	5,071.0	885.0	-608.3	1,099.2	0.00	0.00	
5,300.0	13.60	326.91	5,168.2	904.7	-621.1	1,122.7	0.00	0.00	
5,400.0	13.60	326.91	5,265.4	924.4	-634.0	1,146.2	0.00	0.00	
5,500.0	13.60	326.91	5,362.6	944.1	-646.8	1,169.7	0.00	0.00	
5,600.0	13.60	326.91	5,459.8	963.8	-659.7	1,193.2	0.00	0.00	
5,700.0	13.60	326.91	5,557.0	983.5	-672.5	1,216.7	0.00	0.00	
5,800.0	13.60	326.91	5,654.2	1,003.2	-685.3	1,240.3	0.00	0.00	
5,900.0	13.60	326.91	5,751.4	1,022.9	-698.2	1,263.8	0.00	0.00	
6,000.0	13.60	326.91	5,848.6	1,042.6	-711.0	1,287.3	0.00	0.00	
6,100.0	13.60	326.91	5,945.8	1,062.3	-723.9	1,310.8	0.00	0.00	
6,200.0	13.60	326.91	6,043.0	1,082.0	-736.7	1,334.3	0.00	0.00	
6,300.0	13.60	326.91	6,140.2	1,101.7	-749.5	1,357.8	0.00	0.00	
6,400.0	13.60	326.91	6,237.4	1,121.4	-762.4	1,381.3	0.00	0.00	
6,500.0	13.60	326.91	6,334.6	1,141.1	-775.2	1,404.9	0.00	0.00	
6,600.0	13.60	326.91	6,431.8	1,160.8	-788.0	1,428.4	0.00	0.00	
6,700.0	13.60	326.91	6,529.0	1,180.5	-800.9	1,451.9	0.00	0.00	
6,800.0	13.60	326.91	6,626.2	1,200.2	-813.7	1,475.4	0.00	0.00	
6,865.5	13.60	326.91	6,689.9	1,213.2	-822.1	1,490.8	0.00	0.00	Start Drop -3.00
6,900.0	12.57	326.91	6,723.4	1,219.7	-826.4	1,498.6	3.00	-3.00	
7,000.0	9.57	326.91	6,821.6	1,235.8	-836.9	1,517.8	3.00	-3.00	
7,100.0	6.57	326.91	6,920.6	1,247.5	-844.5	1,531.8	3.00	-3.00	
7,200.0	3.57	326.91	7,020.2	1,254.9	-849.4	1,540.7	3.00	-3.00	
7,278.9	1.20	326.91	7,099.0	1,257.7	-851.1	1,543.9	3.00	-3.00	WF (TVD)
7,300.0	0.57	326.91	7,120.1	1,257.9	-851.3	1,544.3	3.00	-3.00	
7,318.9	0.00	0.00	7,139.0	1,258.0	-851.4	1,544.4	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - DW 8609D-28 P28
7,400.0	0.20	239.57	7,220.1	1,258.0	-851.5	1,544.4	0.25	0.25	
7,444.3	0.31	239.57	7,264.3	1,257.9	-851.7	1,544.4	0.25	0.25	
7,500.0	0.31	239.57	7,320.1	1,257.7	-851.9	1,544.4	0.00	0.00	
7,600.0	0.31	239.57	7,420.1	1,257.4	-852.4	1,544.4	0.00	0.00	
7,700.0	0.31	239.57	7,520.1	1,257.1	-852.9	1,544.5	0.00	0.00	
7,800.0	0.31	239.57	7,620.1	1,256.9	-853.4	1,544.5	0.00	0.00	
7,900.0	0.31	239.57	7,720.1	1,256.6	-853.8	1,544.5	0.00	0.00	
8,000.0	0.31	239.57	7,820.1	1,256.3	-854.3	1,544.6	0.00	0.00	
8,100.0	0.31	239.57	7,920.1	1,256.0	-854.8	1,544.6	0.00	0.00	
8,200.0	0.31	239.57	8,020.1	1,255.8	-855.2	1,544.6	0.00	0.00	
8,300.0	0.31	239.57	8,120.1	1,255.5	-855.7	1,544.7	0.00	0.00	
8,400.0	0.31	239.57	8,220.1	1,255.2	-856.2	1,544.7	0.00	0.00	
8,500.0	0.31	239.57	8,320.1	1,254.9	-856.7	1,544.7	0.00	0.00	
8,600.0	0.31	239.57	8,420.1	1,254.7	-857.1	1,544.8	0.00	0.00	
8,700.0	0.31	239.57	8,520.1	1,254.4	-857.6	1,544.8	0.00	0.00	
8,800.0	0.31	239.57	8,620.1	1,254.1	-858.1	1,544.8	0.00	0.00	
8,900.0	0.31	239.57	8,720.1	1,253.8	-858.5	1,544.9	0.00	0.00	
9,000.0	0.31	239.57	8,820.1	1,253.5	-859.0	1,544.9	0.00	0.00	
9,100.0	0.31	239.57	8,920.1	1,253.3	-859.5	1,544.9	0.00	0.00	
9,200.0	0.31	239.57	9,020.1	1,253.0	-860.0	1,545.0	0.00	0.00	
9,300.0	0.31	239.57	9,120.1	1,252.7	-860.4	1,545.0	0.00	0.00	
9,400.0	0.31	239.57	9,220.1	1,252.4	-860.9	1,545.0	0.00	0.00	

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<b>Well:</b>	DW 8609D-28 (P28 496)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,500.0	0.31	239.57	9,320.1	1,252.2	-861.4	1,545.0	0.00	0.00	
9,600.0	0.31	239.57	9,420.1	1,251.9	-861.8	1,545.1	0.00	0.00	
9,700.0	0.31	239.57	9,520.1	1,251.6	-862.3	1,545.1	0.00	0.00	
9,800.0	0.31	239.57	9,620.1	1,251.3	-862.8	1,545.1	0.00	0.00	
9,900.0	0.31	239.57	9,720.1	1,251.1	-863.3	1,545.2	0.00	0.00	
10,000.0	0.31	239.57	9,820.1	1,250.8	-863.7	1,545.2	0.00	0.00	
10,100.0	0.31	239.57	9,920.1	1,250.5	-864.2	1,545.2	0.00	0.00	
10,200.0	0.31	239.57	10,020.1	1,250.2	-864.7	1,545.3	0.00	0.00	
10,300.0	0.31	239.57	10,120.1	1,249.9	-865.1	1,545.3	0.00	0.00	
10,400.0	0.31	239.57	10,220.0	1,249.7	-865.6	1,545.3	0.00	0.00	
10,500.0	0.31	239.57	10,320.0	1,249.4	-866.1	1,545.4	0.00	0.00	
10,600.0	0.31	239.57	10,420.0	1,249.1	-866.6	1,545.4	0.00	0.00	
10,700.0	0.31	239.57	10,520.0	1,248.8	-867.0	1,545.4	0.00	0.00	
10,800.0	0.31	239.57	10,620.0	1,248.6	-867.5	1,545.5	0.00	0.00	
10,900.0	0.31	239.57	10,720.0	1,248.3	-868.0	1,545.5	0.00	0.00	
10,979.0	0.31	239.57	10,799.0	1,248.1	-868.3	1,545.5	0.00	0.00	Rins (TVD) - DW 8609D-28 P28 496 PBHL (Co
11,000.0	0.31	239.57	10,820.0	1,248.0	-868.4	1,545.5	0.00	0.00	
11,100.0	0.31	239.57	10,920.0	1,247.7	-868.9	1,545.6	0.00	0.00	
11,200.0	0.31	239.57	11,020.0	1,247.5	-869.4	1,545.6	0.00	0.00	
11,300.0	0.31	239.57	11,120.0	1,247.2	-869.9	1,545.6	0.00	0.00	
11,309.0	0.31	239.57	11,129.0	1,247.1	-869.9	1,545.6	0.00	0.00	Cozz (TVD)
11,400.0	0.31	239.57	11,220.0	1,246.9	-870.3	1,545.7	0.00	0.00	
11,499.0	0.31	239.57	11,319.0	1,246.6	-870.8	1,545.7	0.00	0.00	Corc (TVD)
11,500.0	0.31	239.57	11,320.0	1,246.6	-870.8	1,545.7	0.00	0.00	
11,600.0	0.31	239.57	11,420.0	1,246.3	-871.3	1,545.7	0.00	0.00	
11,700.0	0.31	239.57	11,520.0	1,246.1	-871.7	1,545.8	0.00	0.00	
11,779.0	0.31	239.57	11,599.0	1,245.8	-872.1	1,545.8	0.00	0.00	Sego (TVD)
11,800.0	0.31	239.57	11,620.0	1,245.8	-872.2	1,545.8	0.00	0.00	
11,900.0	0.31	239.57	11,720.0	1,245.5	-872.7	1,545.8	0.00	0.00	
11,979.0	0.31	239.57	11,799.0	1,245.3	-873.1	1,545.8	0.00	0.00	L Sego (TVD)
12,000.0	0.31	239.57	11,820.0	1,245.2	-873.2	1,545.9	0.00	0.00	
12,100.0	0.31	239.57	11,920.0	1,245.0	-873.6	1,545.9	0.00	0.00	
12,200.0	0.31	239.57	12,020.0	1,244.7	-874.1	1,545.9	0.00	0.00	
12,229.0	0.31	239.57	12,049.0	1,244.6	-874.2	1,545.9	0.00	0.00	Driller's TD @ 12229.0' MD
12,300.0	0.31	239.57	12,120.0	1,244.4	-874.6	1,546.0	0.00	0.00	
12,400.0	0.31	239.57	12,220.0	1,244.1	-875.0	1,546.0	0.00	0.00	
12,479.0	0.31	239.57	12,299.0	1,243.9	-875.4	1,546.0	0.00	0.00	

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
DW 8609D-28 P28 496 - plan hits target center	0.00	0.00	7,139.0	1,258.0	-851.4	1,680,525.76	2,248,873.44	39° 40' 17.56 N	108° 10' 7.44 W
- Point									
DW 8609D-28 P28 496 - plan hits target center	0.00	0.00	10,799.0	1,248.1	-868.3	1,680,516.29	2,248,856.19	39° 40' 17.46 N	108° 10' 7.65 W
- Rectangle (sides W30.0 H50.0 D0.0)									

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	EDM 5000.1 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S28-T4S-R96W (P28 496)(column pattern)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Project:</b>	Double Willow	<b>MD Reference:</b>	WELL @ 7804.0ft (Original Well Elev)
<b>Site:</b>	S28-T4S-R96W (P28 496)(column pattern)	<b>North Reference:</b>	True
<b>Well:</b>	DW 8609D-28 (P28 496)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
99.0	99.0	Para Creek (TVD)				
399.0	399.0	Mahog Bench (TVD)				
459.2	459.0	Base B Groove (TVD)				
4,097.0	3,999.0	Was G (TVD)				
7,278.9	7,099.0	WF (TVD)				
7,318.9	7,139.0	TOG (TVD)				
10,979.0	10,799.0	Rlns (TVD)				
11,309.0	11,129.0	Cozz (TVD)				
11,499.0	11,319.0	Corc (TVD)				
11,779.0	11,599.0	Sego (TVD)				
11,979.0	11,799.0	L Sego (TVD)				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	-36.0	-8.2	KOP @ 300' MD	
753.4	749.1	8.9	-37.4	EOB; Inc=13.60°	
6,865.5	6,689.9	1,213.2	-822.1	Start Drop -3.00	
7,318.9	7,139.0	1,258.0	-851.4	EOD; Inc=0°	
12,229.0	12,049.0	1,244.6	-874.2	Driller's TD @ 12229.0' MD	
12,479.0	12,299.0	1,243.9	-875.4	Permit TD @ 12479.0' MD	