

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8608C-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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 8608C-28 (P28 496)					
Well Position	+N/-S	0.0 ft	Northing:	1,679,243.27 ft	Latitude:	39° 40' 5.13 N
	+E/-W	0.0 ft	Easting:	2,249,687.54 ft	Longitude:	108° 9' 56.55 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,771.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/1/2010	10.52	65.86	52,361

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	342.12	

Plan Sections										
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	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,022.7	24.68	342.51	997.5	166.4	-52.4	3.00	3.00	0.00	342.51	
6,984.3	24.68	342.51	6,414.5	2,540.6	-800.5	0.00	0.00	0.00	0.00	
7,807.0	0.00	0.00	7,212.0	2,707.0	-852.9	3.00	-3.00	0.00	180.00	DW 8608C-28 P28 496
7,932.4	0.31	239.49	7,337.4	2,706.8	-853.2	0.25	0.25	-96.07	239.49	
11,467.0	0.31	239.49	10,872.0	2,697.0	-869.9	0.00	0.00	0.00	0.00	DW 8608C-28 P28 496
12,717.1	0.31	239.49	12,122.0	2,693.5	-875.8	0.00	0.00	0.00	0.00	
12,967.1	0.31	239.49	12,372.0	2,692.8	-876.9	0.00	0.00	0.00	0.00	

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Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8608C-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
172.0	0.00	0.00	172.0	0.0	0.0	0.0	0.00	0.00	Para Creek (TVD)
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200' MD
300.0	3.00	342.51	300.0	2.5	-0.8	2.6	3.00	3.00	
400.0	6.00	342.51	399.6	10.0	-3.1	10.5	3.00	3.00	
472.9	8.19	342.51	472.0	18.5	-5.9	19.5	3.00	3.00	Mahog Bench (TVD)
500.0	9.00	342.51	498.8	22.4	-7.1	23.5	3.00	3.00	
533.7	10.01	342.51	532.0	27.7	-8.7	29.1	3.00	3.00	Base B Groove (TVD)
600.0	12.00	342.51	597.1	39.8	-12.5	41.7	3.00	3.00	
700.0	15.00	342.51	694.3	62.0	-19.6	65.1	3.00	3.00	
800.0	18.00	342.51	790.2	89.1	-28.1	93.5	3.00	3.00	
900.0	21.00	342.51	884.4	121.0	-38.1	126.8	3.00	3.00	
1,000.0	24.00	342.51	976.8	157.5	-49.6	165.1	3.00	3.00	
1,022.7	24.68	342.51	997.5	166.4	-52.4	174.5	3.00	3.00	EOB; Inc=24.68°
1,100.0	24.68	342.51	1,067.7	197.2	-62.1	206.7	0.00	0.00	
1,200.0	24.68	342.51	1,158.6	237.0	-74.7	248.5	0.00	0.00	
1,300.0	24.68	342.51	1,249.5	276.8	-87.2	290.3	0.00	0.00	
1,400.0	24.68	342.51	1,340.3	316.6	-99.8	332.0	0.00	0.00	
1,500.0	24.68	342.51	1,431.2	356.5	-112.3	373.8	0.00	0.00	
1,600.0	24.68	342.51	1,522.1	396.3	-124.9	415.5	0.00	0.00	
1,700.0	24.68	342.51	1,612.9	436.1	-137.4	457.3	0.00	0.00	
1,800.0	24.68	342.51	1,703.8	475.9	-150.0	499.0	0.00	0.00	
1,900.0	24.68	342.51	1,794.7	515.8	-162.5	540.8	0.00	0.00	
2,000.0	24.68	342.51	1,885.5	555.6	-175.1	582.5	0.00	0.00	
2,100.0	24.68	342.51	1,976.4	595.4	-187.6	624.3	0.00	0.00	
2,200.0	24.68	342.51	2,067.3	635.2	-200.2	666.0	0.00	0.00	
2,300.0	24.68	342.51	2,158.1	675.1	-212.7	707.8	0.00	0.00	
2,400.0	24.68	342.51	2,249.0	714.9	-225.2	749.5	0.00	0.00	
2,500.0	24.68	342.51	2,339.8	754.7	-237.8	791.3	0.00	0.00	
2,600.0	24.68	342.51	2,430.7	794.5	-250.3	833.1	0.00	0.00	
2,700.0	24.68	342.51	2,521.6	834.4	-262.9	874.8	0.00	0.00	
2,800.0	24.68	342.51	2,612.4	874.2	-275.4	916.6	0.00	0.00	
2,900.0	24.68	342.51	2,703.3	914.0	-288.0	958.3	0.00	0.00	
3,000.0	24.68	342.51	2,794.2	953.8	-300.5	1,000.1	0.00	0.00	
3,100.0	24.68	342.51	2,885.0	993.7	-313.1	1,041.8	0.00	0.00	
3,200.0	24.68	342.51	2,975.9	1,033.5	-325.6	1,083.6	0.00	0.00	
3,300.0	24.68	342.51	3,066.8	1,073.3	-338.2	1,125.3	0.00	0.00	
3,400.0	24.68	342.51	3,157.6	1,113.1	-350.7	1,167.1	0.00	0.00	
3,500.0	24.68	342.51	3,248.5	1,153.0	-363.3	1,208.8	0.00	0.00	
3,600.0	24.68	342.51	3,339.4	1,192.8	-375.8	1,250.6	0.00	0.00	
3,700.0	24.68	342.51	3,430.2	1,232.6	-388.4	1,292.3	0.00	0.00	
3,800.0	24.68	342.51	3,521.1	1,272.4	-400.9	1,334.1	0.00	0.00	
3,900.0	24.68	342.51	3,612.0	1,312.3	-413.5	1,375.9	0.00	0.00	
4,000.0	24.68	342.51	3,702.8	1,352.1	-426.0	1,417.6	0.00	0.00	
4,100.0	24.68	342.51	3,793.7	1,391.9	-438.6	1,459.4	0.00	0.00	
4,200.0	24.68	342.51	3,884.6	1,431.7	-451.1	1,501.1	0.00	0.00	
4,300.0	24.68	342.51	3,975.4	1,471.6	-463.7	1,542.9	0.00	0.00	
4,400.0	24.68	342.51	4,066.3	1,511.4	-476.2	1,584.6	0.00	0.00	
4,406.3	24.68	342.51	4,072.0	1,513.9	-477.0	1,587.2	0.00	0.00	Was G (TVD)
4,500.0	24.68	342.51	4,157.2	1,551.2	-488.8	1,626.4	0.00	0.00	
4,600.0	24.68	342.51	4,248.0	1,591.0	-501.3	1,668.1	0.00	0.00	

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Well:	DW 8608C-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	24.68	342.51	4,338.9	1,630.9	-513.8	1,709.9	0.00	0.00	
4,800.0	24.68	342.51	4,429.8	1,670.7	-526.4	1,751.6	0.00	0.00	
4,900.0	24.68	342.51	4,520.6	1,710.5	-538.9	1,793.4	0.00	0.00	
5,000.0	24.68	342.51	4,611.5	1,750.3	-551.5	1,835.1	0.00	0.00	
5,100.0	24.68	342.51	4,702.3	1,790.2	-564.0	1,876.9	0.00	0.00	
5,200.0	24.68	342.51	4,793.2	1,830.0	-576.6	1,918.7	0.00	0.00	
5,300.0	24.68	342.51	4,884.1	1,869.8	-589.1	1,960.4	0.00	0.00	
5,400.0	24.68	342.51	4,974.9	1,909.6	-601.7	2,002.2	0.00	0.00	
5,500.0	24.68	342.51	5,065.8	1,949.5	-614.2	2,043.9	0.00	0.00	
5,600.0	24.68	342.51	5,156.7	1,989.3	-626.8	2,085.7	0.00	0.00	
5,700.0	24.68	342.51	5,247.5	2,029.1	-639.3	2,127.4	0.00	0.00	
5,800.0	24.68	342.51	5,338.4	2,068.9	-651.9	2,169.2	0.00	0.00	
5,900.0	24.68	342.51	5,429.3	2,108.8	-664.4	2,210.9	0.00	0.00	
6,000.0	24.68	342.51	5,520.1	2,148.6	-677.0	2,252.7	0.00	0.00	
6,100.0	24.68	342.51	5,611.0	2,188.4	-689.5	2,294.4	0.00	0.00	
6,200.0	24.68	342.51	5,701.9	2,228.2	-702.1	2,336.2	0.00	0.00	
6,300.0	24.68	342.51	5,792.7	2,268.1	-714.6	2,377.9	0.00	0.00	
6,400.0	24.68	342.51	5,883.6	2,307.9	-727.2	2,419.7	0.00	0.00	
6,500.0	24.68	342.51	5,974.5	2,347.7	-739.7	2,461.5	0.00	0.00	
6,600.0	24.68	342.51	6,065.3	2,387.5	-752.3	2,503.2	0.00	0.00	
6,700.0	24.68	342.51	6,156.2	2,427.4	-764.8	2,545.0	0.00	0.00	
6,800.0	24.68	342.51	6,247.1	2,467.2	-777.3	2,586.7	0.00	0.00	
6,900.0	24.68	342.51	6,337.9	2,507.0	-789.9	2,628.5	0.00	0.00	
6,984.3	24.68	342.51	6,414.5	2,540.6	-800.5	2,663.7	0.00	0.00	Start Drop -3.00
7,000.0	24.21	342.51	6,428.8	2,546.8	-802.4	2,670.2	3.00	-3.00	
7,100.0	21.21	342.51	6,521.1	2,583.6	-814.0	2,708.8	3.00	-3.00	
7,200.0	18.21	342.51	6,615.2	2,615.8	-824.2	2,742.5	3.00	-3.00	
7,300.0	15.21	342.51	6,711.0	2,643.2	-832.8	2,771.2	3.00	-3.00	
7,400.0	12.21	342.51	6,808.1	2,665.8	-839.9	2,794.9	3.00	-3.00	
7,500.0	9.21	342.51	6,906.3	2,683.5	-845.5	2,813.5	3.00	-3.00	
7,600.0	6.21	342.51	7,005.4	2,696.3	-849.5	2,826.9	3.00	-3.00	
7,700.0	3.21	342.51	7,105.1	2,704.1	-852.0	2,835.1	3.00	-3.00	
7,767.0	1.20	342.51	7,172.0	2,706.6	-852.8	2,837.7	3.00	-3.00	WF (TVD)
7,800.0	0.21	342.51	7,205.0	2,707.0	-852.9	2,838.1	3.00	-3.00	
7,807.0	0.00	0.00	7,212.0	2,707.0	-852.9	2,838.1	3.00	-3.00	EOD; Inc=0° - TOG (TVD) - DW 8608C-28 P28
7,900.0	0.23	239.49	7,305.0	2,706.9	-853.1	2,838.1	0.25	0.25	
7,932.4	0.31	239.49	7,337.4	2,706.8	-853.2	2,838.1	0.25	0.25	
8,000.0	0.31	239.49	7,405.0	2,706.6	-853.5	2,838.0	0.00	0.00	
8,100.0	0.31	239.49	7,505.0	2,706.3	-854.0	2,837.9	0.00	0.00	
8,200.0	0.31	239.49	7,605.0	2,706.1	-854.5	2,837.7	0.00	0.00	
8,300.0	0.31	239.49	7,705.0	2,705.8	-854.9	2,837.6	0.00	0.00	
8,400.0	0.31	239.49	7,805.0	2,705.5	-855.4	2,837.5	0.00	0.00	
8,500.0	0.31	239.49	7,905.0	2,705.2	-855.9	2,837.4	0.00	0.00	
8,600.0	0.31	239.49	8,005.0	2,705.0	-856.3	2,837.3	0.00	0.00	
8,700.0	0.31	239.49	8,105.0	2,704.7	-856.8	2,837.1	0.00	0.00	
8,800.0	0.31	239.49	8,205.0	2,704.4	-857.3	2,837.0	0.00	0.00	
8,900.0	0.31	239.49	8,305.0	2,704.1	-857.8	2,836.9	0.00	0.00	
9,000.0	0.31	239.49	8,405.0	2,703.8	-858.2	2,836.8	0.00	0.00	
9,100.0	0.31	239.49	8,505.0	2,703.6	-858.7	2,836.7	0.00	0.00	
9,200.0	0.31	239.49	8,605.0	2,703.3	-859.2	2,836.5	0.00	0.00	
9,300.0	0.31	239.49	8,705.0	2,703.0	-859.6	2,836.4	0.00	0.00	
9,400.0	0.31	239.49	8,805.0	2,702.7	-860.1	2,836.3	0.00	0.00	

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Wellbore:	DD		
Design:	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	239.49	8,905.0	2,702.5	-860.6	2,836.2	0.00	0.00	
9,600.0	0.31	239.49	9,005.0	2,702.2	-861.1	2,836.1	0.00	0.00	
9,700.0	0.31	239.49	9,105.0	2,701.9	-861.5	2,835.9	0.00	0.00	
9,800.0	0.31	239.49	9,205.0	2,701.6	-862.0	2,835.8	0.00	0.00	
9,900.0	0.31	239.49	9,305.0	2,701.3	-862.5	2,835.7	0.00	0.00	
10,000.0	0.31	239.49	9,405.0	2,701.1	-862.9	2,835.6	0.00	0.00	
10,100.0	0.31	239.49	9,505.0	2,700.8	-863.4	2,835.5	0.00	0.00	
10,200.0	0.31	239.49	9,605.0	2,700.5	-863.9	2,835.3	0.00	0.00	
10,300.0	0.31	239.49	9,705.0	2,700.2	-864.4	2,835.2	0.00	0.00	
10,400.0	0.31	239.49	9,805.0	2,700.0	-864.8	2,835.1	0.00	0.00	
10,500.0	0.31	239.49	9,905.0	2,699.7	-865.3	2,835.0	0.00	0.00	
10,600.0	0.31	239.49	10,005.0	2,699.4	-865.8	2,834.9	0.00	0.00	
10,700.0	0.31	239.49	10,105.0	2,699.1	-866.2	2,834.7	0.00	0.00	
10,800.0	0.31	239.49	10,205.0	2,698.8	-866.7	2,834.6	0.00	0.00	
10,900.0	0.31	239.49	10,305.0	2,698.6	-867.2	2,834.5	0.00	0.00	
11,000.0	0.31	239.49	10,405.0	2,698.3	-867.7	2,834.4	0.00	0.00	
11,100.0	0.31	239.49	10,505.0	2,698.0	-868.1	2,834.3	0.00	0.00	
11,200.0	0.31	239.49	10,605.0	2,697.7	-868.6	2,834.1	0.00	0.00	
11,300.0	0.31	239.49	10,705.0	2,697.5	-869.1	2,834.0	0.00	0.00	
11,400.0	0.31	239.49	10,805.0	2,697.2	-869.5	2,833.9	0.00	0.00	
11,467.0	0.31	239.49	10,872.0	2,697.0	-869.9	2,833.8	0.00	0.00	Rins (TVD) - DW 8608C-28 P28 496 PBHL (Co
11,500.0	0.31	239.49	10,905.0	2,696.9	-870.0	2,833.8	0.00	0.00	
11,600.0	0.31	239.49	11,005.0	2,696.6	-870.5	2,833.7	0.00	0.00	
11,700.0	0.31	239.49	11,105.0	2,696.3	-871.0	2,833.5	0.00	0.00	
11,797.0	0.31	239.49	11,202.0	2,696.1	-871.4	2,833.4	0.00	0.00	Cozz (TVD)
11,800.0	0.31	239.49	11,205.0	2,696.1	-871.4	2,833.4	0.00	0.00	
11,900.0	0.31	239.49	11,305.0	2,695.8	-871.9	2,833.3	0.00	0.00	
11,987.0	0.31	239.49	11,392.0	2,695.5	-872.3	2,833.2	0.00	0.00	Corc (TVD)
12,000.0	0.31	239.49	11,405.0	2,695.5	-872.4	2,833.2	0.00	0.00	
12,100.0	0.31	239.49	11,505.0	2,695.2	-872.8	2,833.1	0.00	0.00	
12,200.0	0.31	239.49	11,605.0	2,695.0	-873.3	2,832.9	0.00	0.00	
12,267.0	0.31	239.49	11,672.0	2,694.8	-873.6	2,832.9	0.00	0.00	Sego (TVD)
12,300.0	0.31	239.49	11,705.0	2,694.7	-873.8	2,832.8	0.00	0.00	
12,400.0	0.31	239.49	11,805.0	2,694.4	-874.3	2,832.7	0.00	0.00	
12,467.0	0.31	239.49	11,872.0	2,694.2	-874.6	2,832.6	0.00	0.00	L Sego (TVD)
12,500.0	0.31	239.49	11,905.0	2,694.1	-874.7	2,832.6	0.00	0.00	
12,600.0	0.31	239.49	12,005.0	2,693.8	-875.2	2,832.5	0.00	0.00	
12,700.0	0.31	239.49	12,104.9	2,693.6	-875.7	2,832.3	0.00	0.00	
12,717.1	0.31	239.49	12,122.0	2,693.5	-875.8	2,832.3	0.00	0.00	Drillers TD @ 12717.1' MD
12,800.0	0.31	239.49	12,204.9	2,693.3	-876.2	2,832.2	0.00	0.00	
12,900.0	0.31	239.49	12,304.9	2,693.0	-876.6	2,832.1	0.00	0.00	
12,967.1	0.31	239.49	12,372.0	2,692.8	-876.9	2,832.0	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	EDM 5000.1 US Multi Users DB	Local Co-ordinate Reference:	Site S28-T4S-R96W (P28 496)(column pattern)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 7804.0ft (Original Well Elev)
Project:	Double Willow	MD Reference:	WELL @ 7804.0ft (Original Well Elev)
Site:	S28-T4S-R96W (P28 496)(column pattern)	North Reference:	True
Well:	DW 8608C-28 (P28 496)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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 8608C-28 P28 496	0.00	0.00	7,212.0	2,707.0	-852.9	1,681,974.14	2,248,914.43	39° 40' 31.88 N	108° 10' 7.46 W
- plan hits target center									
- Point									
DW 8608C-28 P28 496 I	0.00	0.00	10,872.0	2,697.0	-869.9	1,681,964.64	2,248,897.18	39° 40' 31.78 N	108° 10' 7.67 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
172.0	172.0	Para Creek (TVD)				
472.9	472.0	Mahog Bench (TVD)				
533.7	532.0	Base B Groove (TVD)				
4,406.3	4,072.0	Was G (TVD)				
7,767.0	7,172.0	WF (TVD)				
7,807.0	7,212.0	TOG (TVD)				
11,467.0	10,872.0	Rlns (TVD)				
11,797.0	11,202.0	Cozz (TVD)				
11,987.0	11,392.0	Corc (TVD)				
12,267.0	11,672.0	Sego (TVD)				
12,467.0	11,872.0	L Sego (TVD)				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200' MD
1,022.7	997.5	166.4	-52.4	EOB; Inc=24.68°
6,984.3	6,414.5	2,540.6	-800.5	Start Drop -3.00
7,807.0	7,212.0	2,707.0	-852.9	EOD; Inc=0°
12,717.1	12,122.0	2,706.8	-853.2	Drillers TD @ 12717.1' MD
12,967.1	12,372.0	2,697.0	-869.9	Permit TD @ 12967.1' MD