

EnCana Oil & Gas (USA) Inc.
Edith Ann 8-8-21

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DIRECTIONAL DRILLING PLAN

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EnCana Corporation
Planning Report - Geographic

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Database:	EDM	Local Co-ordinate Reference:	Well Edith Ann 8-8-21
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Edith Ann 8-8-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Wattenberg,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

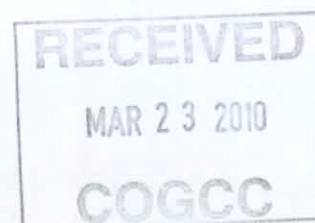
Site		New Drills			
Site Position:		Northing:	1,252,450.66ft	Latitude:	40° 1' 32.016 N
From:	Lat/Long	Easting:	3,120,627.66ft	Longitude:	105° 4' 9.336 W
Position Uncertainty:	ft	Slot Radius:	in	Grid Convergence:	0.28 °

Well	Edith Ann 8-8-21					
Well Position	+N/-S	33,764.8 ft	Northing:	1,286,322.76 ft	Latitude:	40° 7' 5.772 N
	+E/-W	19,175.0 ft	Easting:	3,139,612.19 ft	Longitude:	105° 0' 2.844 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	4,930.0ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.12	66.84	53,129

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	131.81

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	
850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,181.2	6.62	131.81	1,180.4	-12.7	14.3	2.00	2.00	0.00	131.81	
6,770.6	6.62	131.81	6,732.6	-442.6	494.8	0.00	0.00	0.00	0.00	
7,101.8	0.00	0.00	7,063.0	-455.3	509.0	2.00	-2.00	0.00	180.00	
8,171.8	0.00	0.00	8,133.0	-455.3	509.0	0.00	0.00	0.00	0.00	8-8-21 BHL



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Planning Report - Geographic

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Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Edith Ann 8-8-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
100.0	0.00	0.00	100.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
200.0	0.00	0.00	200.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
300.0	0.00	0.00	300.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
400.0	0.00	0.00	400.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
500.0	0.00	0.00	500.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
600.0	0.00	0.00	600.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
700.0	0.00	0.00	700.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
800.0	0.00	0.00	800.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
850.0	0.00	0.00	850.0	0.0	0.0	1,286,322.76	3,139,612.19	40° 7' 5.772 N	105° 0' 2.844 W
900.0	1.00	131.81	900.0	-0.3	0.3	1,286,322.47	3,139,612.52	40° 7' 5.769 N	105° 0' 2.840 W
1,000.0	3.00	131.81	999.9	-2.6	2.9	1,286,320.16	3,139,615.14	40° 7' 5.746 N	105° 0' 2.806 W
1,100.0	5.00	131.81	1,099.7	-7.3	8.1	1,286,315.54	3,139,620.36	40° 7' 5.700 N	105° 0' 2.739 W
1,181.2	6.62	131.81	1,180.4	-12.7	14.3	1,286,310.09	3,139,626.52	40° 7' 5.646 N	105° 0' 2.661 W
1,200.0	6.62	131.81	1,199.1	-14.2	15.9	1,286,308.65	3,139,628.14	40° 7' 5.632 N	105° 0' 2.640 W
1,300.0	6.62	131.81	1,298.5	-21.9	24.5	1,286,301.01	3,139,636.78	40° 7' 5.556 N	105° 0' 2.529 W
1,400.0	6.62	131.81	1,397.8	-29.6	33.1	1,286,293.37	3,139,645.42	40° 7' 5.480 N	105° 0' 2.418 W
1,500.0	6.62	131.81	1,497.1	-37.3	41.7	1,286,285.73	3,139,654.06	40° 7' 5.404 N	105° 0' 2.308 W
1,600.0	6.62	131.81	1,596.5	-45.0	50.3	1,286,278.08	3,139,662.70	40° 7' 5.328 N	105° 0' 2.197 W
1,700.0	6.62	131.81	1,695.8	-52.6	58.9	1,286,270.44	3,139,671.34	40° 7' 5.252 N	105° 0' 2.086 W
1,800.0	6.62	131.81	1,795.1	-60.3	67.4	1,286,262.80	3,139,679.98	40° 7' 5.176 N	105° 0' 1.976 W
1,900.0	6.62	131.81	1,894.5	-68.0	76.0	1,286,255.16	3,139,688.62	40° 7' 5.100 N	105° 0' 1.865 W
2,000.0	6.62	131.81	1,993.8	-75.7	84.6	1,286,247.52	3,139,697.26	40° 7' 5.024 N	105° 0' 1.754 W
2,100.0	6.62	131.81	2,093.1	-83.4	93.2	1,286,239.88	3,139,705.90	40° 7' 4.948 N	105° 0' 1.644 W
2,200.0	6.62	131.81	2,192.5	-91.1	101.8	1,286,232.23	3,139,714.54	40° 7' 4.872 N	105° 0' 1.533 W
2,300.0	6.62	131.81	2,291.8	-98.8	110.4	1,286,224.59	3,139,723.18	40° 7' 4.796 N	105° 0' 1.422 W
2,400.0	6.62	131.81	2,391.1	-106.5	119.0	1,286,216.95	3,139,731.82	40° 7' 4.720 N	105° 0' 1.312 W
2,500.0	6.62	131.81	2,490.5	-114.2	127.6	1,286,209.31	3,139,740.46	40° 7' 4.644 N	105° 0' 1.201 W
2,600.0	6.62	131.81	2,589.8	-121.9	136.2	1,286,201.67	3,139,749.10	40° 7' 4.568 N	105° 0' 1.091 W
2,700.0	6.62	131.81	2,689.1	-129.5	144.8	1,286,194.03	3,139,757.74	40° 7' 4.492 N	105° 0' 0.980 W
2,800.0	6.62	131.81	2,788.5	-137.2	153.4	1,286,186.38	3,139,766.38	40° 7' 4.416 N	105° 0' 0.869 W
2,900.0	6.62	131.81	2,887.8	-144.9	162.0	1,286,178.74	3,139,775.02	40° 7' 4.340 N	105° 0' 0.759 W
3,000.0	6.62	131.81	2,987.1	-152.6	170.6	1,286,171.10	3,139,783.66	40° 7' 4.264 N	105° 0' 0.648 W
3,100.0	6.62	131.81	3,086.5	-160.3	179.2	1,286,163.46	3,139,792.30	40° 7' 4.188 N	105° 0' 0.537 W
3,200.0	6.62	131.81	3,185.8	-168.0	187.8	1,286,155.82	3,139,800.94	40° 7' 4.112 N	105° 0' 0.427 W
3,300.0	6.62	131.81	3,285.1	-175.7	196.4	1,286,148.18	3,139,809.58	40° 7' 4.036 N	105° 0' 0.316 W
3,400.0	6.62	131.81	3,384.5	-183.4	205.0	1,286,140.53	3,139,818.22	40° 7' 3.960 N	105° 0' 0.205 W
3,500.0	6.62	131.81	3,483.8	-191.1	213.6	1,286,132.89	3,139,826.86	40° 7' 3.884 N	105° 0' 0.095 W
3,600.0	6.62	131.81	3,583.1	-198.8	222.2	1,286,125.25	3,139,835.50	40° 7' 3.808 N	104° 59' 59.984 W
3,700.0	6.62	131.81	3,682.5	-206.5	230.8	1,286,117.61	3,139,844.14	40° 7' 3.732 N	104° 59' 59.873 W
3,800.0	6.62	131.81	3,781.8	-214.1	239.4	1,286,109.97	3,139,852.78	40° 7' 3.656 N	104° 59' 59.763 W
3,900.0	6.62	131.81	3,881.1	-221.8	248.0	1,286,102.33	3,139,861.42	40° 7' 3.580 N	104° 59' 59.652 W
4,000.0	6.62	131.81	3,980.4	-229.5	256.6	1,286,094.68	3,139,870.06	40° 7' 3.504 N	104° 59' 59.541 W
4,100.0	6.62	131.81	4,079.8	-237.2	265.2	1,286,087.04	3,139,878.70	40° 7' 3.428 N	104° 59' 59.431 W
4,200.0	6.62	131.81	4,179.1	-244.9	273.8	1,286,079.40	3,139,887.34	40° 7' 3.352 N	104° 59' 59.320 W
4,300.0	6.62	131.81	4,278.4	-252.6	282.4	1,286,071.76	3,139,895.98	40° 7' 3.276 N	104° 59' 59.209 W
4,400.0	6.62	131.81	4,377.8	-260.3	291.0	1,286,064.12	3,139,904.62	40° 7' 3.200 N	104° 59' 59.099 W
4,500.0	6.62	131.81	4,477.1	-268.0	299.6	1,286,056.48	3,139,913.26	40° 7' 3.124 N	104° 59' 58.988 W
4,600.0	6.62	131.81	4,576.4	-275.7	308.2	1,286,048.83	3,139,921.90	40° 7' 3.048 N	104° 59' 58.877 W
4,700.0	6.62	131.81	4,675.8	-283.4	316.8	1,286,041.19	3,139,930.54	40° 7' 2.972 N	104° 59' 58.767 W
4,800.0	6.62	131.81	4,775.1	-291.0	325.3	1,286,033.55	3,139,939.18	40° 7' 2.896 N	104° 59' 58.656 W
4,900.0	6.62	131.81	4,874.4	-298.7	333.9	1,286,025.91	3,139,947.82	40° 7' 2.820 N	104° 59' 58.545 W
5,000.0	6.62	131.81	4,973.8	-306.4	342.5	1,286,018.27	3,139,956.46	40° 7' 2.744 N	104° 59' 58.435 W
5,100.0	6.62	131.81	5,073.1	-314.1	351.1	1,286,010.63	3,139,965.10	40° 7' 2.668 N	104° 59' 58.324 W
5,200.0	6.62	131.81	5,172.4	-321.8	359.7	1,286,002.98	3,139,973.73	40° 7' 2.592 N	104° 59' 58.213 W

EnCana Corporation

Planning Report - Geographic

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Database:	EDM	Local Co-ordinate Reference:	Well Edith Ann 8-8-21
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Edith Ann 8-8-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,300.0	6.62	131.81	5,271.8	-329.5	368.3	1,285,995.34	3,139,982.37	40° 7' 2.516 N	104° 59' 58.103 W
5,400.0	6.62	131.81	5,371.1	-337.2	376.9	1,285,987.70	3,139,991.01	40° 7' 2.440 N	104° 59' 57.992 W
5,500.0	6.62	131.81	5,470.4	-344.9	385.5	1,285,980.06	3,139,999.65	40° 7' 2.364 N	104° 59' 57.881 W
5,600.0	6.62	131.81	5,569.8	-352.6	394.1	1,285,972.42	3,140,008.29	40° 7' 2.288 N	104° 59' 57.771 W
5,700.0	6.62	131.81	5,669.1	-360.3	402.7	1,285,964.78	3,140,016.93	40° 7' 2.212 N	104° 59' 57.660 W
5,800.0	6.62	131.81	5,768.4	-367.9	411.3	1,285,957.13	3,140,025.57	40° 7' 2.136 N	104° 59' 57.549 W
5,900.0	6.62	131.81	5,867.8	-375.6	419.9	1,285,949.49	3,140,034.21	40° 7' 2.060 N	104° 59' 57.439 W
6,000.0	6.62	131.81	5,967.1	-383.3	428.5	1,285,941.85	3,140,042.85	40° 7' 1.984 N	104° 59' 57.328 W
6,100.0	6.62	131.81	6,066.4	-391.0	437.1	1,285,934.21	3,140,051.49	40° 7' 1.908 N	104° 59' 57.217 W
6,200.0	6.62	131.81	6,165.8	-398.7	445.7	1,285,926.57	3,140,060.13	40° 7' 1.832 N	104° 59' 57.107 W
6,300.0	6.62	131.81	6,265.1	-406.4	454.3	1,285,918.93	3,140,068.77	40° 7' 1.756 N	104° 59' 56.996 W
6,400.0	6.62	131.81	6,364.4	-414.1	462.9	1,285,911.28	3,140,077.41	40° 7' 1.680 N	104° 59' 56.886 W
6,500.0	6.62	131.81	6,463.8	-421.8	471.5	1,285,903.64	3,140,086.05	40° 7' 1.604 N	104° 59' 56.775 W
6,600.0	6.62	131.81	6,563.1	-429.5	480.1	1,285,896.00	3,140,094.69	40° 7' 1.528 N	104° 59' 56.664 W
6,700.0	6.62	131.81	6,662.4	-437.2	488.7	1,285,888.36	3,140,103.33	40° 7' 1.452 N	104° 59' 56.554 W
6,770.6	6.62	131.81	6,732.6	-442.6	494.8	1,285,882.96	3,140,109.43	40° 7' 1.398 N	104° 59' 56.475 W
6,800.0	6.04	131.81	6,761.8	-444.7	497.2	1,285,880.82	3,140,111.86	40° 7' 1.377 N	104° 59' 56.444 W
6,900.0	4.04	131.81	6,861.4	-450.6	503.7	1,285,875.00	3,140,118.43	40° 7' 1.319 N	104° 59' 56.360 W
7,000.0	2.04	131.81	6,961.2	-454.1	507.7	1,285,871.49	3,140,122.40	40° 7' 1.284 N	104° 59' 56.309 W
7,100.0	0.04	131.81	7,061.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,101.8	0.00	0.00	7,063.0	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,200.0	0.00	0.00	7,161.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,300.0	0.00	0.00	7,261.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,400.0	0.00	0.00	7,361.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,500.0	0.00	0.00	7,461.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,600.0	0.00	0.00	7,561.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,700.0	0.00	0.00	7,661.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,800.0	0.00	0.00	7,761.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
7,900.0	0.00	0.00	7,861.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
8,000.0	0.00	0.00	7,961.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
8,100.0	0.00	0.00	8,061.2	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
8,171.8	0.00	0.00	8,133.0	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W

Design 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									
8-8-21 BHL	0.00	0.00	8,133.0	-455.3	509.0	1,285,870.30	3,140,123.75	40° 7' 1.272 N	104° 59' 56.292 W
- plan hits target									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,430.4	4,408.0	Sussex		0.00		
4,903.6	4,878.0	Shannon		0.00		
7,301.8	7,263.0	Niobrara		0.00		
7,591.8	7,553.0	Codell		0.00		
8,021.8	7,983.0	J Sand		0.00		

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Database:	EDM	Local Co-ordinate Reference:	Well Edith Ann 8-8-21
Company:	DJ/Paradox/WTX	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Project:	Wattenberg	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	New Drills	North Reference:	True
Well:	Edith Ann 8-8-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		