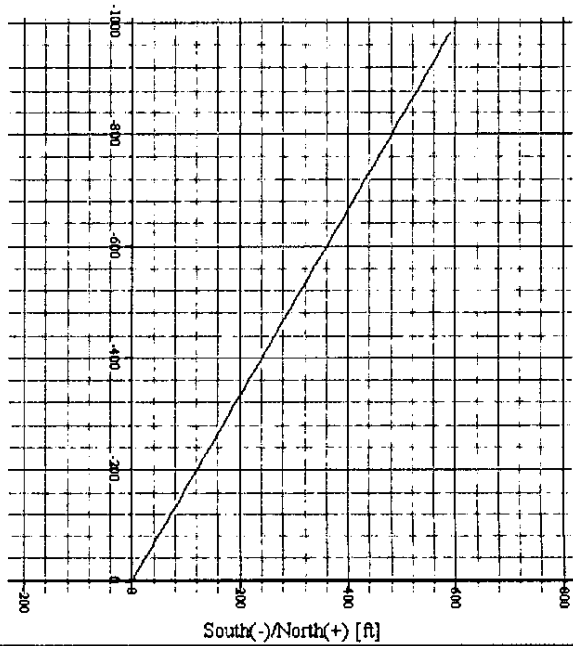
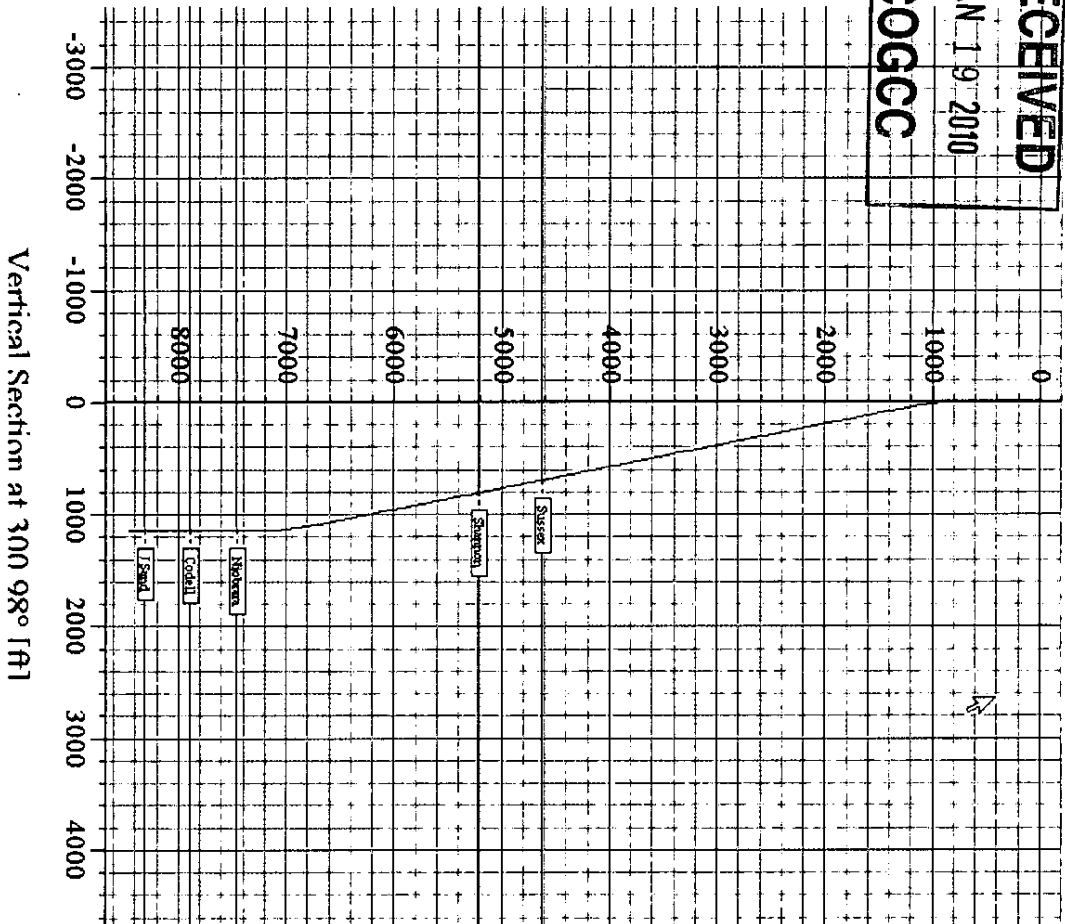




Deviated Drilling Plan

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JAN 19 2010
COGCC

True Vertical Depth [ft]



Design Formation Top Editor - Vessels Minerals #11-30/Welbore #1

MD (ft)	TVD WH (ft)	TVD Sys (ft)	TVD Path (ft)	Name	Lithology
1 4685.0	-470.0	4621.0	Sussex	(none)	(none)
2 5285.6	120.0	5211.0	Shannon	(none)	(none)
3 7566.0	2370.0	7461.0	Nidderer	(none)	(none)
4 7991.0	2795.0	7886.0	Codell	(none)	(none)
5 8422.0	3226.0	8317.0	J Sand	(none)	(none)
6					

Surface location: 1098' FNL, 1641' FWL

Bottomhole location: 510' FNL, 660' FWL

Encana Oil & Gas (USA) Inc.
Vessels Minerals 11-30

EnCana Corporation
Planning Report - Geographic

Database: EDM
Company: DJ/Paradox/WTX
Project: Wattenberg
Site: New Drills
Well: Vessels Minerals #11-30
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Vessels Minerals #11-30
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	Vessels Minerals #11-30					
Well Position	+N/-S	261.6 ft	Northing:	1,252,740.38 ft	Latitude:	40° 1' 34.607 N
	+E/-W	5,536.6 ft	Easting:	3,126,162.82 ft	Longitude:	105° 2' 58.164 W
Position Uncertainty		ft	Wellhead Elevation:	ft	Ground Level:	5,076.0ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/17/2008	9.28	66.79	53,181

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	300.98	

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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,239.1	10.78	300.98	1,235.9	26.0	-43.4	2.00	2.00	0.00	300.98	
6,826.9	10.78	300.98	6,725.1	564.2	-939.5	0.00	0.00	0.00	0.00	
7,366.0	0.00	0.00	7,261.0	590.2	-982.9	2.00	-2.00	0.00	180.00	
8,572.0	0.00	0.00	8,467.0	590.2	-982.9	0.00	0.00	0.00	0.00	VM 11-30 BHL

EnCana Corporation

Planning Report - Geographic

Database: EDM
Company: DJ/Paradox/WTX
Project: Wattenberg
Site: New Drills
Well: Vessels Minerals #11-30
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Vessels Minerals #11-30
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
100.0	0.00	0.00	100.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
200.0	0.00	0.00	200.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
300.0	0.00	0.00	300.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
400.0	0.00	0.00	400.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
500.0	0.00	0.00	500.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
600.0	0.00	0.00	600.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
700.0	0.00	0.00	700.0	0.0	0.0	1,252,740.38	3,126,162.82	40° 1' 34.607 N	105° 2' 58.164 W
800.0	2.00	300.98	800.0	0.9	-1.5	1,252,741.27	3,126,161.32	40° 1' 34.616 N	105° 2' 58.183 W
900.0	4.00	300.98	899.8	3.6	-6.0	1,252,743.94	3,126,156.82	40° 1' 34.643 N	105° 2' 58.241 W
1,000.0	6.00	300.98	999.5	8.1	-13.5	1,252,748.39	3,126,149.32	40° 1' 34.687 N	105° 2' 58.337 W
1,100.0	8.00	300.98	1,098.7	14.4	-23.9	1,252,754.61	3,126,138.84	40° 1' 34.749 N	105° 2' 58.471 W
1,200.0	10.00	300.98	1,197.5	22.4	-37.3	1,252,762.59	3,126,125.39	40° 1' 34.829 N	105° 2' 58.644 W
1,239.1	10.78	300.98	1,235.9	26.0	-43.4	1,252,766.19	3,126,119.33	40° 1' 34.865 N	105° 2' 58.721 W
1,300.0	10.78	300.98	1,295.7	31.9	-53.1	1,252,772.01	3,126,109.53	40° 1' 34.923 N	105° 2' 58.847 W
1,400.0	10.78	300.98	1,394.0	41.5	-69.2	1,252,781.56	3,126,093.44	40° 1' 35.018 N	105° 2' 59.053 W
1,500.0	10.78	300.98	1,492.2	51.2	-85.2	1,252,791.10	3,126,077.36	40° 1' 35.113 N	105° 2' 59.259 W
1,600.0	10.78	300.98	1,590.5	60.8	-101.2	1,252,800.65	3,126,061.27	40° 1' 35.208 N	105° 2' 59.465 W
1,700.0	10.78	300.98	1,688.7	70.4	-117.3	1,252,810.20	3,126,045.18	40° 1' 35.303 N	105° 2' 59.672 W
1,800.0	10.78	300.98	1,786.9	80.1	-133.3	1,252,819.75	3,126,029.10	40° 1' 35.398 N	105° 2' 59.878 W
1,900.0	10.78	300.98	1,885.2	89.7	-149.4	1,252,829.30	3,126,013.01	40° 1' 35.494 N	105° 3' 0.084 W
2,000.0	10.78	300.98	1,983.4	99.3	-165.4	1,252,838.85	3,125,996.92	40° 1' 35.589 N	105° 3' 0.290 W
2,100.0	10.78	300.98	2,081.6	108.9	-181.4	1,252,848.40	3,125,980.84	40° 1' 35.684 N	105° 3' 0.496 W
2,200.0	10.78	300.98	2,179.9	118.6	-197.5	1,252,857.95	3,125,964.75	40° 1' 35.779 N	105° 3' 0.702 W
2,300.0	10.78	300.98	2,278.1	128.2	-213.5	1,252,867.50	3,125,948.66	40° 1' 35.874 N	105° 3' 0.909 W
2,400.0	10.78	300.98	2,376.3	137.8	-229.5	1,252,877.05	3,125,932.58	40° 1' 35.969 N	105° 3' 1.115 W
2,500.0	10.78	300.98	2,474.6	147.5	-245.6	1,252,886.60	3,125,916.49	40° 1' 36.065 N	105° 3' 1.321 W
2,600.0	10.78	300.98	2,572.8	157.1	-261.6	1,252,896.14	3,125,900.40	40° 1' 36.160 N	105° 3' 1.527 W
2,700.0	10.78	300.98	2,671.0	166.7	-277.7	1,252,905.69	3,125,884.31	40° 1' 36.255 N	105° 3' 1.733 W
2,800.0	10.78	300.98	2,769.3	176.4	-293.7	1,252,915.24	3,125,868.23	40° 1' 36.350 N	105° 3' 1.940 W
2,900.0	10.78	300.98	2,867.5	186.0	-309.7	1,252,924.79	3,125,852.14	40° 1' 36.445 N	105° 3' 2.146 W
3,000.0	10.78	300.98	2,965.7	195.6	-325.8	1,252,934.34	3,125,836.05	40° 1' 36.541 N	105° 3' 2.352 W
3,100.0	10.78	300.98	3,064.0	205.3	-341.8	1,252,943.89	3,125,819.97	40° 1' 36.636 N	105° 3' 2.558 W
3,200.0	10.78	300.98	3,162.2	214.9	-357.8	1,252,953.44	3,125,803.88	40° 1' 36.731 N	105° 3' 2.764 W
3,300.0	10.78	300.98	3,260.4	224.5	-373.9	1,252,962.99	3,125,787.79	40° 1' 36.826 N	105° 3' 2.970 W
3,400.0	10.78	300.98	3,358.7	234.1	-389.9	1,252,972.54	3,125,771.71	40° 1' 36.921 N	105° 3' 3.177 W
3,500.0	10.78	300.98	3,456.9	243.8	-406.0	1,252,982.09	3,125,755.62	40° 1' 37.016 N	105° 3' 3.383 W
3,600.0	10.78	300.98	3,555.1	253.4	-422.0	1,252,991.63	3,125,739.53	40° 1' 37.112 N	105° 3' 3.589 W
3,700.0	10.78	300.98	3,653.4	263.0	-438.0	1,253,001.18	3,125,723.45	40° 1' 37.207 N	105° 3' 3.795 W
3,800.0	10.78	300.98	3,751.6	272.7	-454.1	1,253,010.73	3,125,707.36	40° 1' 37.302 N	105° 3' 4.001 W
3,900.0	10.78	300.98	3,849.8	282.3	-470.1	1,253,020.28	3,125,691.27	40° 1' 37.397 N	105° 3' 4.207 W
4,000.0	10.78	300.98	3,948.1	291.9	-486.2	1,253,029.83	3,125,675.19	40° 1' 37.492 N	105° 3' 4.414 W
4,100.0	10.78	300.98	4,046.3	301.6	-502.2	1,253,039.38	3,125,659.10	40° 1' 37.587 N	105° 3' 4.620 W
4,200.0	10.78	300.98	4,144.6	311.2	-518.2	1,253,048.93	3,125,643.01	40° 1' 37.683 N	105° 3' 4.826 W
4,300.0	10.78	300.98	4,242.8	320.8	-534.3	1,253,058.48	3,125,626.93	40° 1' 37.778 N	105° 3' 5.032 W
4,400.0	10.78	300.98	4,341.0	330.5	-550.3	1,253,068.03	3,125,610.84	40° 1' 37.873 N	105° 3' 5.238 W
4,500.0	10.78	300.98	4,439.3	340.1	-566.3	1,253,077.58	3,125,594.75	40° 1' 37.968 N	105° 3' 5.444 W
4,600.0	10.78	300.98	4,537.5	349.7	-582.4	1,253,087.13	3,125,578.67	40° 1' 38.063 N	105° 3' 5.651 W
4,700.0	10.78	300.98	4,635.7	359.3	-598.4	1,253,096.67	3,125,562.58	40° 1' 38.158 N	105° 3' 5.857 W
4,800.0	10.78	300.98	4,734.0	369.0	-614.5	1,253,106.22	3,125,546.49	40° 1' 38.254 N	105° 3' 6.063 W
4,900.0	10.78	300.98	4,832.2	378.6	-630.5	1,253,115.77	3,125,530.41	40° 1' 38.349 N	105° 3' 6.269 W
5,000.0	10.78	300.98	4,930.4	388.2	-646.5	1,253,125.32	3,125,514.32	40° 1' 38.444 N	105° 3' 6.475 W
5,100.0	10.78	300.98	5,028.7	397.9	-662.6	1,253,134.87	3,125,498.23	40° 1' 38.539 N	105° 3' 6.682 W
5,200.0	10.78	300.98	5,126.9	407.5	-678.6	1,253,144.42	3,125,482.15	40° 1' 38.634 N	105° 3' 6.888 W
5,300.0	10.78	300.98	5,225.1	417.1	-694.6	1,253,153.97	3,125,466.06	40° 1' 38.730 N	105° 3' 7.094 W

EnCana Corporation

Planning Report - Geographic

Database: EDM
Company: DJ/Paradox/WTX
Project: Wattenberg
Site: New Drills
Well: Vessels Minerals #11-30
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Vessels Minerals #11-30
TVD Reference: WELL @ 5091.0ft (Original Well Elev)
MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
5,400.0	10.78	300.98	5,323.4	426.8	-710.7	1,253,163.52	3,125,449.97	40° 1' 38.825 N	105° 3' 7.300 W
5,500.0	10.78	300.98	5,421.6	436.4	-726.7	1,253,173.07	3,125,433.89	40° 1' 38.920 N	105° 3' 7.506 W
5,600.0	10.78	300.98	5,519.8	446.0	-742.8	1,253,182.62	3,125,417.80	40° 1' 39.015 N	105° 3' 7.712 W
5,700.0	10.78	300.98	5,618.1	455.7	-758.8	1,253,192.16	3,125,401.71	40° 1' 39.110 N	105° 3' 7.919 W
5,800.0	10.78	300.98	5,716.3	465.3	-774.8	1,253,201.71	3,125,385.63	40° 1' 39.205 N	105° 3' 8.125 W
5,900.0	10.78	300.98	5,814.5	474.9	-790.9	1,253,211.26	3,125,369.54	40° 1' 39.301 N	105° 3' 8.331 W
6,000.0	10.78	300.98	5,912.8	484.5	-806.9	1,253,220.81	3,125,353.45	40° 1' 39.396 N	105° 3' 8.537 W
6,100.0	10.78	300.98	6,011.0	494.2	-823.0	1,253,230.36	3,125,337.36	40° 1' 39.491 N	105° 3' 8.743 W
6,200.0	10.78	300.98	6,109.2	503.8	-839.0	1,253,239.91	3,125,321.28	40° 1' 39.586 N	105° 3' 8.949 W
6,300.0	10.78	300.98	6,207.5	513.4	-855.0	1,253,249.46	3,125,305.19	40° 1' 39.681 N	105° 3' 9.156 W
6,400.0	10.78	300.98	6,305.7	523.1	-871.1	1,253,259.01	3,125,289.10	40° 1' 39.776 N	105° 3' 9.362 W
6,500.0	10.78	300.98	6,403.9	532.7	-887.1	1,253,268.56	3,125,273.02	40° 1' 39.872 N	105° 3' 9.568 W
6,600.0	10.78	300.98	6,502.2	542.3	-903.1	1,253,278.11	3,125,256.93	40° 1' 39.967 N	105° 3' 9.774 W
6,700.0	10.78	300.98	6,600.4	552.0	-919.2	1,253,287.66	3,125,240.84	40° 1' 40.062 N	105° 3' 9.980 W
6,800.0	10.78	300.98	6,698.6	561.6	-935.2	1,253,297.20	3,125,224.76	40° 1' 40.157 N	105° 3' 10.187 W
6,826.9	10.78	300.98	6,725.1	564.2	-939.5	1,253,299.77	3,125,220.43	40° 1' 40.183 N	105° 3' 10.242 W
6,900.0	9.32	300.98	6,797.1	570.7	-950.5	1,253,306.28	3,125,209.46	40° 1' 40.248 N	105° 3' 10.383 W
7,000.0	7.32	300.98	6,896.0	578.2	-962.9	1,253,313.67	3,125,197.02	40° 1' 40.321 N	105° 3' 10.542 W
7,100.0	5.32	300.98	6,995.4	583.9	-972.3	1,253,319.29	3,125,187.55	40° 1' 40.377 N	105° 3' 10.663 W
7,200.0	3.32	300.98	7,095.1	587.7	-978.8	1,253,323.13	3,125,181.07	40° 1' 40.415 N	105° 3' 10.746 W
7,300.0	1.32	300.98	7,195.0	589.8	-982.2	1,253,325.20	3,125,177.59	40° 1' 40.436 N	105° 3' 10.791 W
7,366.0	0.00	0.00	7,261.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,400.0	0.00	0.00	7,295.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,500.0	0.00	0.00	7,395.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,600.0	0.00	0.00	7,495.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,700.0	0.00	0.00	7,595.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,800.0	0.00	0.00	7,695.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
7,900.0	0.00	0.00	7,795.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,000.0	0.00	0.00	7,895.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,100.0	0.00	0.00	7,995.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,200.0	0.00	0.00	8,095.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,300.0	0.00	0.00	8,195.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,400.0	0.00	0.00	8,295.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,500.0	0.00	0.00	8,395.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W
8,572.0	0.00	0.00	8,467.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
VM 11-30 BHL - plan hits target - Point	0.00	0.00	8,467.0	590.2	-982.9	1,253,325.59	3,125,176.94	40° 1' 40.440 N	105° 3' 10.799 W

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MD Reference: WELL @ 5091.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,685.0	4,621.0	Sussex		0.00		
5,285.6	5,211.0	Shannon		0.00		
7,566.0	7,461.0	Niobrara		0.00		
7,991.0	7,886.0	Codell		0.00		
8,422.0	8,317.0	J Sand		0.00		