

Enerplus Resources (USA) Corporation

**Weld County, CO
SEC 34 T8N-R66W
Dante 8-66-34-33N**

Original Wellbore

Plan: Plan 2

Standard Planning Report

17 November, 2019

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

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

Site		SEC 34 T8N-R66W			
Site Position:		Northing:	1,466,670.78 usft	Latitude:	40° 36' 43.362 N
From:	Lat/Long	Easting:	3,205,908.72 usft	Longitude:	104° 45' 30.060 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	Dante 8-66-34-33N					
Well Position	+N/-S	275.1 usft	Northing:	1,466,945.78 usft	Latitude:	40° 36' 46.080 N
	+E/-W	-5.6 usft	Easting:	3,205,900.86 usft	Longitude:	104° 45' 30.132 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,997.0 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/30/2019	7.96	66.96	52,221.13178092

Design	Plan 2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	277.61

Plan Survey Tool Program	Date	11/17/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,226.3	Plan 2 (Original Wellbore)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,425.3	21.38	48.55	3,392.5	174.0	197.0	1.50	1.50	0.00	48.55	
6,882.3	21.38	48.55	6,611.6	1,008.2	1,141.6	0.00	0.00	0.00	0.00	
7,923.6	90.00	276.53	7,296.0	1,269.2	612.2	10.00	6.59	-12.68	230.00	
8,105.1	90.00	269.26	7,296.0	1,278.3	431.0	4.00	0.00	-4.00	-90.00	
17,226.7	90.00	269.26	7,296.0	1,161.2	-8,689.9	0.00	0.00	0.00	0.00	Dante 8-66-34-33N B

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9-5/8" - Surface									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Begin 1.5° Nudge									
2,100.0	1.50	48.55	2,100.0	0.9	1.0	-0.9	1.50	1.50	0.00
2,200.0	3.00	48.55	2,199.9	3.5	3.9	-3.4	1.50	1.50	0.00
2,300.0	4.50	48.55	2,299.7	7.8	8.8	-7.7	1.50	1.50	0.00
2,400.0	6.00	48.55	2,399.3	13.9	15.7	-13.7	1.50	1.50	0.00
2,500.0	7.50	48.55	2,498.6	21.6	24.5	-21.4	1.50	1.50	0.00
2,600.0	9.00	48.55	2,597.5	31.1	35.2	-30.8	1.50	1.50	0.00
2,700.0	10.50	48.55	2,696.1	42.3	47.9	-41.9	1.50	1.50	0.00
2,800.0	12.00	48.55	2,794.2	55.3	62.6	-54.7	1.50	1.50	0.00
2,900.0	13.50	48.55	2,891.7	69.9	79.1	-69.2	1.50	1.50	0.00
3,000.0	15.00	48.55	2,988.6	86.2	97.6	-85.3	1.50	1.50	0.00
3,100.0	16.50	48.55	3,084.9	104.1	117.9	-103.1	1.50	1.50	0.00
3,200.0	18.00	48.55	3,180.4	123.8	140.1	-122.5	1.50	1.50	0.00
3,300.0	19.50	48.55	3,275.0	145.0	164.2	-143.6	1.50	1.50	0.00
3,400.0	21.00	48.55	3,368.9	167.9	190.2	-166.2	1.50	1.50	0.00
3,425.3	21.38	48.55	3,392.5	174.0	197.0	-172.2	1.50	1.50	0.00
Begin 21.38° Tangent									
3,500.0	21.38	48.55	3,462.0	192.0	217.4	-190.1	0.00	0.00	0.00
3,600.0	21.38	48.55	3,555.1	216.2	244.7	-214.0	0.00	0.00	0.00
3,700.0	21.38	48.55	3,648.3	240.3	272.1	-237.9	0.00	0.00	0.00
3,800.0	21.38	48.55	3,741.4	264.4	299.4	-261.7	0.00	0.00	0.00
3,900.0	21.38	48.55	3,834.5	288.6	326.7	-285.6	0.00	0.00	0.00
4,000.0	21.38	48.55	3,927.6	312.7	354.0	-309.5	0.00	0.00	0.00
4,100.0	21.38	48.55	4,020.7	336.8	381.4	-333.4	0.00	0.00	0.00
4,200.0	21.38	48.55	4,113.8	360.9	408.7	-357.3	0.00	0.00	0.00
4,300.0	21.38	48.55	4,207.0	385.1	436.0	-381.2	0.00	0.00	0.00
4,400.0	21.38	48.55	4,300.1	409.2	463.3	-405.1	0.00	0.00	0.00
4,500.0	21.38	48.55	4,393.2	433.3	490.7	-429.0	0.00	0.00	0.00
4,600.0	21.38	48.55	4,486.3	457.5	518.0	-452.8	0.00	0.00	0.00
4,700.0	21.38	48.55	4,579.4	481.6	545.3	-476.7	0.00	0.00	0.00
4,800.0	21.38	48.55	4,672.6	505.7	572.6	-500.6	0.00	0.00	0.00

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	21.38	48.55	4,765.7	529.9	600.0	-524.5	0.00	0.00	0.00
5,000.0	21.38	48.55	4,858.8	554.0	627.3	-548.4	0.00	0.00	0.00
5,100.0	21.38	48.55	4,951.9	578.1	654.6	-572.3	0.00	0.00	0.00
5,200.0	21.38	48.55	5,045.0	602.3	681.9	-596.2	0.00	0.00	0.00
5,300.0	21.38	48.55	5,138.1	626.4	709.3	-620.1	0.00	0.00	0.00
5,400.0	21.38	48.55	5,231.3	650.5	736.6	-643.9	0.00	0.00	0.00
5,500.0	21.38	48.55	5,324.4	674.7	763.9	-667.8	0.00	0.00	0.00
5,600.0	21.38	48.55	5,417.5	698.8	791.2	-691.7	0.00	0.00	0.00
5,700.0	21.38	48.55	5,510.6	722.9	818.6	-715.6	0.00	0.00	0.00
5,800.0	21.38	48.55	5,603.7	747.1	845.9	-739.5	0.00	0.00	0.00
5,900.0	21.38	48.55	5,696.9	771.2	873.2	-763.4	0.00	0.00	0.00
6,000.0	21.38	48.55	5,790.0	795.3	900.5	-787.3	0.00	0.00	0.00
6,100.0	21.38	48.55	5,883.1	819.5	927.9	-811.2	0.00	0.00	0.00
6,200.0	21.38	48.55	5,976.2	843.6	955.2	-835.0	0.00	0.00	0.00
6,300.0	21.38	48.55	6,069.3	867.7	982.5	-858.9	0.00	0.00	0.00
6,400.0	21.38	48.55	6,162.4	891.9	1,009.8	-882.8	0.00	0.00	0.00
6,500.0	21.38	48.55	6,255.6	916.0	1,037.2	-906.7	0.00	0.00	0.00
6,600.0	21.38	48.55	6,348.7	940.1	1,064.5	-930.6	0.00	0.00	0.00
6,700.0	21.38	48.55	6,441.8	964.3	1,091.8	-954.5	0.00	0.00	0.00
6,800.0	21.38	48.55	6,534.9	988.4	1,119.1	-978.4	0.00	0.00	0.00
6,882.3	21.38	48.55	6,611.6	1,008.2	1,141.6	-998.0	0.00	0.00	0.00
KOP - Start 10°/100' Build									
6,900.0	20.29	44.64	6,628.1	1,012.6	1,146.2	-1,002.0	10.00	-6.18	-22.11
7,000.0	16.38	14.91	6,723.2	1,038.6	1,162.0	-1,014.2	10.00	-3.90	-29.73
7,100.0	17.88	340.86	6,819.0	1,066.8	1,160.6	-1,009.1	10.00	1.50	-34.05
7,200.0	23.79	317.81	6,912.6	1,096.3	1,142.0	-986.7	10.00	5.90	-23.05
7,300.0	31.72	304.59	7,001.1	1,126.3	1,106.7	-947.8	10.00	7.93	-13.22
7,400.0	40.51	296.43	7,081.8	1,155.7	1,055.9	-893.5	10.00	8.79	-8.16
7,500.0	49.69	290.81	7,152.4	1,183.8	991.0	-825.5	10.00	9.18	-5.62
7,600.0	59.08	286.56	7,210.6	1,209.6	914.0	-745.8	10.00	9.39	-4.25
7,700.0	68.58	283.08	7,254.6	1,232.5	827.4	-656.8	10.00	9.50	-3.48
7,800.0	78.14	280.03	7,283.2	1,251.6	733.6	-561.4	10.00	9.56	-3.05
7,900.0	87.74	277.19	7,295.5	1,266.4	635.6	-462.3	10.00	9.59	-2.84
7,923.6	90.00	276.53	7,296.0	1,269.2	612.2	-438.7	9.98	9.58	-2.79
7" - 1778' FSL & 623' FEL - Intermediate									
8,000.0	90.00	273.47	7,296.0	1,275.8	536.1	-362.4	4.00	0.00	-4.00
8,100.0	90.00	269.47	7,296.0	1,278.4	436.1	-263.0	4.00	0.00	-4.00
8,105.1	90.00	269.26	7,296.0	1,278.3	431.0	-257.9	4.00	0.00	-4.00
8,200.0	90.00	269.26	7,296.0	1,277.1	336.1	-164.0	0.00	0.00	0.00
8,300.0	90.00	269.26	7,296.0	1,275.8	236.1	-65.1	0.00	0.00	0.00
8,400.0	90.00	269.26	7,296.0	1,274.6	136.1	33.9	0.00	0.00	0.00
8,500.0	90.00	269.26	7,296.0	1,273.3	36.2	132.8	0.00	0.00	0.00
8,600.0	90.00	269.26	7,296.0	1,272.0	-63.8	231.7	0.00	0.00	0.00
8,700.0	90.00	269.26	7,296.0	1,270.7	-163.8	330.7	0.00	0.00	0.00
8,800.0	90.00	269.26	7,296.0	1,269.4	-263.8	429.6	0.00	0.00	0.00
8,900.0	90.00	269.26	7,296.0	1,268.1	-363.8	528.6	0.00	0.00	0.00
9,000.0	90.00	269.26	7,296.0	1,266.8	-463.8	627.5	0.00	0.00	0.00
9,100.0	90.00	269.26	7,296.0	1,265.6	-563.8	726.5	0.00	0.00	0.00
9,200.0	90.00	269.26	7,296.0	1,264.3	-663.8	825.4	0.00	0.00	0.00
9,300.0	90.00	269.26	7,296.0	1,263.0	-763.8	924.3	0.00	0.00	0.00
9,400.0	90.00	269.26	7,296.0	1,261.7	-863.8	1,023.3	0.00	0.00	0.00
9,500.0	90.00	269.26	7,296.0	1,260.4	-963.8	1,122.2	0.00	0.00	0.00
9,600.0	90.00	269.26	7,296.0	1,259.1	-1,063.8	1,221.2	0.00	0.00	0.00
9,700.0	90.00	269.26	7,296.0	1,257.9	-1,163.8	1,320.1	0.00	0.00	0.00

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,800.0	90.00	269.26	7,296.0	1,256.6	-1,263.7	1,419.0	0.00	0.00	0.00	
9,900.0	90.00	269.26	7,296.0	1,255.3	-1,363.7	1,518.0	0.00	0.00	0.00	
10,000.0	90.00	269.26	7,296.0	1,254.0	-1,463.7	1,616.9	0.00	0.00	0.00	
10,100.0	90.00	269.26	7,296.0	1,252.7	-1,563.7	1,715.9	0.00	0.00	0.00	
10,200.0	90.00	269.26	7,296.0	1,251.4	-1,663.7	1,814.8	0.00	0.00	0.00	
10,300.0	90.00	269.26	7,296.0	1,250.1	-1,763.7	1,913.7	0.00	0.00	0.00	
10,400.0	90.00	269.26	7,296.0	1,248.9	-1,863.7	2,012.7	0.00	0.00	0.00	
10,500.0	90.00	269.26	7,296.0	1,247.6	-1,963.7	2,111.6	0.00	0.00	0.00	
10,600.0	90.00	269.26	7,296.0	1,246.3	-2,063.7	2,210.6	0.00	0.00	0.00	
10,700.0	90.00	269.26	7,296.0	1,245.0	-2,163.7	2,309.5	0.00	0.00	0.00	
10,800.0	90.00	269.26	7,296.0	1,243.7	-2,263.7	2,408.4	0.00	0.00	0.00	
10,900.0	90.00	269.26	7,296.0	1,242.4	-2,363.7	2,507.4	0.00	0.00	0.00	
11,000.0	90.00	269.26	7,296.0	1,241.2	-2,463.6	2,606.3	0.00	0.00	0.00	
11,100.0	90.00	269.26	7,296.0	1,239.9	-2,563.6	2,705.3	0.00	0.00	0.00	
11,200.0	90.00	269.26	7,296.0	1,238.6	-2,663.6	2,804.2	0.00	0.00	0.00	
11,300.0	90.00	269.26	7,296.0	1,237.3	-2,763.6	2,903.1	0.00	0.00	0.00	
11,400.0	90.00	269.26	7,296.0	1,236.0	-2,863.6	3,002.1	0.00	0.00	0.00	
11,500.0	90.00	269.26	7,296.0	1,234.7	-2,963.6	3,101.0	0.00	0.00	0.00	
11,600.0	90.00	269.26	7,296.0	1,233.4	-3,063.6	3,200.0	0.00	0.00	0.00	
11,700.0	90.00	269.26	7,296.0	1,232.2	-3,163.6	3,298.9	0.00	0.00	0.00	
11,800.0	90.00	269.26	7,296.0	1,230.9	-3,263.6	3,397.8	0.00	0.00	0.00	
11,900.0	90.00	269.26	7,296.0	1,229.6	-3,363.6	3,496.8	0.00	0.00	0.00	
12,000.0	90.00	269.26	7,296.0	1,228.3	-3,463.6	3,595.7	0.00	0.00	0.00	
12,100.0	90.00	269.26	7,296.0	1,227.0	-3,563.6	3,694.7	0.00	0.00	0.00	
12,200.0	90.00	269.26	7,296.0	1,225.7	-3,663.5	3,793.6	0.00	0.00	0.00	
12,300.0	90.00	269.26	7,296.0	1,224.5	-3,763.5	3,892.6	0.00	0.00	0.00	
12,400.0	90.00	269.26	7,296.0	1,223.2	-3,863.5	3,991.5	0.00	0.00	0.00	
12,500.0	90.00	269.26	7,296.0	1,221.9	-3,963.5	4,090.4	0.00	0.00	0.00	
12,600.0	90.00	269.26	7,296.0	1,220.6	-4,063.5	4,189.4	0.00	0.00	0.00	
12,700.0	90.00	269.26	7,296.0	1,219.3	-4,163.5	4,288.3	0.00	0.00	0.00	
12,800.0	90.00	269.26	7,296.0	1,218.0	-4,263.5	4,387.3	0.00	0.00	0.00	
12,900.0	90.00	269.26	7,296.0	1,216.7	-4,363.5	4,486.2	0.00	0.00	0.00	
13,000.0	90.00	269.26	7,296.0	1,215.5	-4,463.5	4,585.1	0.00	0.00	0.00	
13,100.0	90.00	269.26	7,296.0	1,214.2	-4,563.5	4,684.1	0.00	0.00	0.00	
13,200.0	90.00	269.26	7,296.0	1,212.9	-4,663.5	4,783.0	0.00	0.00	0.00	
13,300.0	90.00	269.26	7,296.0	1,211.6	-4,763.5	4,882.0	0.00	0.00	0.00	
13,400.0	90.00	269.26	7,296.0	1,210.3	-4,863.4	4,980.9	0.00	0.00	0.00	
13,500.0	90.00	269.26	7,296.0	1,209.0	-4,963.4	5,079.8	0.00	0.00	0.00	
13,600.0	90.00	269.26	7,296.0	1,207.8	-5,063.4	5,178.8	0.00	0.00	0.00	
13,700.0	90.00	269.26	7,296.0	1,206.5	-5,163.4	5,277.7	0.00	0.00	0.00	
13,800.0	90.00	269.26	7,296.0	1,205.2	-5,263.4	5,376.7	0.00	0.00	0.00	
13,900.0	90.00	269.26	7,296.0	1,203.9	-5,363.4	5,475.6	0.00	0.00	0.00	
14,000.0	90.00	269.26	7,296.0	1,202.6	-5,463.4	5,574.5	0.00	0.00	0.00	
14,100.0	90.00	269.26	7,296.0	1,201.3	-5,563.4	5,673.5	0.00	0.00	0.00	
14,200.0	90.00	269.26	7,296.0	1,200.0	-5,663.4	5,772.4	0.00	0.00	0.00	
14,300.0	90.00	269.26	7,296.0	1,198.8	-5,763.4	5,871.4	0.00	0.00	0.00	
14,400.0	90.00	269.26	7,296.0	1,197.5	-5,863.4	5,970.3	0.00	0.00	0.00	
14,500.0	90.00	269.26	7,296.0	1,196.2	-5,963.4	6,069.2	0.00	0.00	0.00	
14,600.0	90.00	269.26	7,296.0	1,194.9	-6,063.3	6,168.2	0.00	0.00	0.00	
14,700.0	90.00	269.26	7,296.0	1,193.6	-6,163.3	6,267.1	0.00	0.00	0.00	
14,800.0	90.00	269.26	7,296.0	1,192.3	-6,263.3	6,366.1	0.00	0.00	0.00	
14,900.0	90.00	269.26	7,296.0	1,191.1	-6,363.3	6,465.0	0.00	0.00	0.00	
15,000.0	90.00	269.26	7,296.0	1,189.8	-6,463.3	6,564.0	0.00	0.00	0.00	
15,100.0	90.00	269.26	7,296.0	1,188.5	-6,563.3	6,662.9	0.00	0.00	0.00	

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,200.0	90.00	269.26	7,296.0	1,187.2	-6,663.3	6,761.8	0.00	0.00	0.00	
15,300.0	90.00	269.26	7,296.0	1,185.9	-6,763.3	6,860.8	0.00	0.00	0.00	
15,400.0	90.00	269.26	7,296.0	1,184.6	-6,863.3	6,959.7	0.00	0.00	0.00	
15,500.0	90.00	269.26	7,296.0	1,183.3	-6,963.3	7,058.7	0.00	0.00	0.00	
15,600.0	90.00	269.26	7,296.0	1,182.1	-7,063.3	7,157.6	0.00	0.00	0.00	
15,700.0	90.00	269.26	7,296.0	1,180.8	-7,163.3	7,256.5	0.00	0.00	0.00	
15,800.0	90.00	269.26	7,296.0	1,179.5	-7,263.2	7,355.5	0.00	0.00	0.00	
15,900.0	90.00	269.26	7,296.0	1,178.2	-7,363.2	7,454.4	0.00	0.00	0.00	
16,000.0	90.00	269.26	7,296.0	1,176.9	-7,463.2	7,553.4	0.00	0.00	0.00	
16,100.0	90.00	269.26	7,296.0	1,175.6	-7,563.2	7,652.3	0.00	0.00	0.00	
16,200.0	90.00	269.26	7,296.0	1,174.4	-7,663.2	7,751.2	0.00	0.00	0.00	
16,300.0	90.00	269.26	7,296.0	1,173.1	-7,763.2	7,850.2	0.00	0.00	0.00	
16,400.0	90.00	269.26	7,296.0	1,171.8	-7,863.2	7,949.1	0.00	0.00	0.00	
16,500.0	90.00	269.26	7,296.0	1,170.5	-7,963.2	8,048.1	0.00	0.00	0.00	
16,600.0	90.00	269.26	7,296.0	1,169.2	-8,063.2	8,147.0	0.00	0.00	0.00	
16,700.0	90.00	269.26	7,296.0	1,167.9	-8,163.2	8,245.9	0.00	0.00	0.00	
16,800.0	90.00	269.26	7,296.0	1,166.6	-8,263.2	8,344.9	0.00	0.00	0.00	
16,900.0	90.00	269.26	7,296.0	1,165.4	-8,363.2	8,443.8	0.00	0.00	0.00	
17,000.0	90.00	269.26	7,296.0	1,164.1	-8,463.1	8,542.8	0.00	0.00	0.00	
17,100.0	90.00	269.26	7,296.0	1,162.8	-8,563.1	8,641.7	0.00	0.00	0.00	
17,200.0	90.00	269.26	7,296.0	1,161.5	-8,663.1	8,740.6	0.00	0.00	0.00	
17,226.7	90.00	269.26	7,296.0	1,161.2	-8,689.8	8,767.1	0.00	0.00	0.00	
PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Dante 8-66-34-33N BHL	0.00	0.00	7,296.0	1,161.2	-8,689.9	1,468,034.22	3,197,201.58	40° 36' 57.539 N	104° 47' 22.816 W	
- plan hits target center										
- Point										
Dante 8-66-34-33N LP F	0.00	0.00	7,296.0	1,268.9	611.9	1,468,219.78	3,206,502.11	40° 36' 58.619 N	104° 45' 22.198 W	
- plan misses target center by 0.3usft at 7923.9usft MD (7296.0 TVD, 1269.2 N, 611.9 E)										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,500.0	1,500.0	Surface	9-5/8	9-5/8	
7,923.6	7,296.0	Intermediate	7	7	

Planning Report

Database:	EDM Server Database	Local Co-ordinate Reference:	Well Dante 8-66-34-33N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	KB @ 5013.0usft
Project:	Weld County, CO	MD Reference:	KB @ 5013.0usft
Site:	SEC 34 T8N-R66W	North Reference:	True
Well:	Dante 8-66-34-33N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Plan 2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	9-5/8"
2,000.0	2,000.0	0.0	0.0	Begin 1.5° Nudge
3,425.3	3,392.5	174.0	197.0	Begin 21.38° Tangent
6,882.3	6,611.6	1,008.2	1,141.6	KOP - Start 10°/100' Build
7,923.6	7,296.0	1,269.2	612.2	7" - 1778' FSL & 623' FEL
17,226.7	7,296.0	1,161.2	-8,689.8	PBHL