

# **Enerplus Resources (USA) Corporation**

**Weld County, CO  
SEC 34 T8N-R66W  
Weyburn 7-66-3-10-8C**

**Hz**

**Plan: Plan 3**

## **Standard Planning Report**

**23 September, 2019**

## Planning Report

<b>Database:</b>	EDM Server Database	<b>Local Co-ordinate Reference:</b>	Well Weyburn 7-66-3-10-8C
<b>Company:</b>	Enerplus Resources (USA) Corporation	<b>TVD Reference:</b>	KB @ 5009.0usft
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	KB @ 5009.0usft
<b>Site:</b>	SEC 34 T8N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Weyburn 7-66-3-10-8C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan 3		

<b>Project</b>	Weld County, CO		
<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 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	Weyburn 7-66-3-10-8C					
Well Position	+N/-S	227.7 usft	Northing:	1,466,899.51 usft	Latitude:	40° 36' 45.612 N
	+E/-W	125.5 usft	Easting:	3,206,032.30 usft	Longitude:	104° 45' 28.433 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	4,993.0 usft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	10/31/2019	7.97	66.96	52,230.53860951

<b>Design</b>	Plan 3			
<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	178.86

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/23/2019		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	17,335.4 Plan 3 (Hz)	MWD	
			OWSG MWD - Standard	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,828.0	4.92	160.00	1,827.6	-13.2	4.8	1.50	1.50	0.00	160.00	
6,996.8	4.92	160.00	6,977.4	-429.8	156.4	0.00	0.00	0.00	0.00	
7,849.6	90.00	176.38	7,503.0	-998.9	205.2	10.00	9.98	1.92	16.44	
7,940.0	90.00	180.00	7,503.0	-1,089.2	208.0	4.00	0.00	4.00	90.00	
17,335.4	90.00	180.00	7,503.0	-10,484.6	208.0	0.00	0.00	0.00	0.00	Weyburn 7-66-3-10-8C

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<b>Company:</b>	Enerplus Resources (USA) Corporation	<b>TVD Reference:</b>	KB @ 5009.0usft
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	KB @ 5009.0usft
<b>Site:</b>	SEC 34 T8N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Weyburn 7-66-3-10-8C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan 3		

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	1.50	160.00	1,600.0	-1.2	0.4	1.2	1.50	1.50	0.00
1,700.0	3.00	160.00	1,699.9	-4.9	1.8	5.0	1.50	1.50	0.00
1,800.0	4.50	160.00	1,799.7	-11.1	4.0	11.1	1.50	1.50	0.00
1,828.0	4.92	160.00	1,827.6	-13.2	4.8	13.3	1.50	1.50	0.00
Begin 4.92° Tangent									
1,900.0	4.92	160.00	1,899.3	-19.0	6.9	19.2	0.00	0.00	0.00
2,000.0	4.92	160.00	1,999.0	-27.1	9.9	27.3	0.00	0.00	0.00
2,100.0	4.92	160.00	2,098.6	-35.1	12.8	35.4	0.00	0.00	0.00
2,200.0	4.92	160.00	2,198.2	-43.2	15.7	43.5	0.00	0.00	0.00
2,300.0	4.92	160.00	2,297.9	-51.3	18.7	51.6	0.00	0.00	0.00
2,400.0	4.92	160.00	2,397.5	-59.3	21.6	59.7	0.00	0.00	0.00
2,500.0	4.92	160.00	2,497.1	-67.4	24.5	67.9	0.00	0.00	0.00
2,600.0	4.92	160.00	2,596.8	-75.4	27.5	76.0	0.00	0.00	0.00
2,700.0	4.92	160.00	2,696.4	-83.5	30.4	84.1	0.00	0.00	0.00
2,800.0	4.92	160.00	2,796.0	-91.6	33.3	92.2	0.00	0.00	0.00
2,900.0	4.92	160.00	2,895.6	-99.6	36.3	100.3	0.00	0.00	0.00
3,000.0	4.92	160.00	2,995.3	-107.7	39.2	108.4	0.00	0.00	0.00
3,100.0	4.92	160.00	3,094.9	-115.7	42.1	116.6	0.00	0.00	0.00
3,200.0	4.92	160.00	3,194.5	-123.8	45.1	124.7	0.00	0.00	0.00
3,300.0	4.92	160.00	3,294.2	-131.9	48.0	132.8	0.00	0.00	0.00
3,400.0	4.92	160.00	3,393.8	-139.9	50.9	140.9	0.00	0.00	0.00
3,500.0	4.92	160.00	3,493.4	-148.0	53.9	149.0	0.00	0.00	0.00
3,600.0	4.92	160.00	3,593.1	-156.0	56.8	157.1	0.00	0.00	0.00
3,700.0	4.92	160.00	3,692.7	-164.1	59.7	165.2	0.00	0.00	0.00
3,800.0	4.92	160.00	3,792.3	-172.2	62.7	173.4	0.00	0.00	0.00
3,900.0	4.92	160.00	3,892.0	-180.2	65.6	181.5	0.00	0.00	0.00
4,000.0	4.92	160.00	3,991.6	-188.3	68.5	189.6	0.00	0.00	0.00
4,100.0	4.92	160.00	4,091.2	-196.3	71.5	197.7	0.00	0.00	0.00
4,200.0	4.92	160.00	4,190.9	-204.4	74.4	205.8	0.00	0.00	0.00
4,300.0	4.92	160.00	4,290.5	-212.4	77.3	213.9	0.00	0.00	0.00
4,400.0	4.92	160.00	4,390.1	-220.5	80.3	222.1	0.00	0.00	0.00
4,500.0	4.92	160.00	4,489.8	-228.6	83.2	230.2	0.00	0.00	0.00
4,600.0	4.92	160.00	4,589.4	-236.6	86.1	238.3	0.00	0.00	0.00
4,700.0	4.92	160.00	4,689.0	-244.7	89.1	246.4	0.00	0.00	0.00
4,800.0	4.92	160.00	4,788.6	-252.7	92.0	254.5	0.00	0.00	0.00
4,900.0	4.92	160.00	4,888.3	-260.8	94.9	262.6	0.00	0.00	0.00

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<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	KB @ 5009.0usft
<b>Site:</b>	SEC 34 T8N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Weyburn 7-66-3-10-8C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan 3		

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)
5,000.0	4.92	160.00	4,987.9	-268.9	97.9	270.8	0.00	0.00	0.00
5,100.0	4.92	160.00	5,087.5	-276.9	100.8	278.9	0.00	0.00	0.00
5,200.0	4.92	160.00	5,187.2	-285.0	103.7	287.0	0.00	0.00	0.00
5,300.0	4.92	160.00	5,286.8	-293.0	106.7	295.1	0.00	0.00	0.00
5,400.0	4.92	160.00	5,386.4	-301.1	109.6	303.2	0.00	0.00	0.00
5,500.0	4.92	160.00	5,486.1	-309.2	112.5	311.3	0.00	0.00	0.00
5,600.0	4.92	160.00	5,585.7	-317.2	115.5	319.4	0.00	0.00	0.00
5,700.0	4.92	160.00	5,685.3	-325.3	118.4	327.6	0.00	0.00	0.00
5,800.0	4.92	160.00	5,785.0	-333.3	121.3	335.7	0.00	0.00	0.00
5,900.0	4.92	160.00	5,884.6	-341.4	124.3	343.8	0.00	0.00	0.00
6,000.0	4.92	160.00	5,984.2	-349.5	127.2	351.9	0.00	0.00	0.00
6,100.0	4.92	160.00	6,083.9	-357.5	130.1	360.0	0.00	0.00	0.00
6,200.0	4.92	160.00	6,183.5	-365.6	133.1	368.1	0.00	0.00	0.00
6,300.0	4.92	160.00	6,283.1	-373.6	136.0	376.3	0.00	0.00	0.00
6,400.0	4.92	160.00	6,382.8	-381.7	138.9	384.4	0.00	0.00	0.00
6,500.0	4.92	160.00	6,482.4	-389.8	141.9	392.5	0.00	0.00	0.00
6,600.0	4.92	160.00	6,582.0	-397.8	144.8	400.6	0.00	0.00	0.00
6,700.0	4.92	160.00	6,681.6	-405.9	147.7	408.7	0.00	0.00	0.00
6,800.0	4.92	160.00	6,781.3	-413.9	150.7	416.8	0.00	0.00	0.00
6,900.0	4.92	160.00	6,880.9	-422.0	153.6	425.0	0.00	0.00	0.00
6,996.8	4.92	160.00	6,977.4	-429.8	156.4	432.8	0.00	0.00	0.00
KOP - Start 10°/100' Build									
7,000.0	5.23	160.99	6,980.5	-430.1	156.5	433.1	10.00	9.62	31.06
7,100.0	15.10	171.22	7,078.9	-447.3	160.0	450.4	10.00	9.87	10.23
7,200.0	25.08	173.41	7,172.7	-481.3	164.4	484.5	10.00	9.97	2.19
7,300.0	35.06	174.40	7,259.1	-531.1	169.7	534.3	10.00	9.99	0.99
7,400.0	45.06	174.99	7,335.5	-595.1	175.6	598.4	10.00	9.99	0.59
7,500.0	55.05	175.41	7,399.7	-671.4	182.0	674.8	10.00	9.99	0.42
7,600.0	65.05	175.74	7,449.5	-757.6	188.6	761.2	10.00	10.00	0.32
7,700.0	75.04	176.01	7,483.6	-851.3	195.4	855.0	10.00	10.00	0.28
7,800.0	85.04	176.26	7,500.9	-949.4	202.0	953.2	10.00	10.00	0.25
7,849.6	90.00	176.38	7,503.0	-998.9	205.2	1,002.7	10.00	10.00	0.24
7" - 528' FNL & 788' FEL - Intermediate									
7,900.0	90.00	178.40	7,503.0	-1,049.2	207.5	1,053.1	4.00	0.00	4.00
7,940.0	90.00	180.00	7,503.0	-1,089.2	208.0	1,093.2	4.00	0.00	4.00
8,000.0	90.00	180.00	7,503.0	-1,149.2	208.0	1,153.1	0.00	0.00	0.00
8,100.0	90.00	180.00	7,503.0	-1,249.2	208.0	1,253.1	0.00	0.00	0.00
8,200.0	90.00	180.00	7,503.0	-1,349.2	208.0	1,353.1	0.00	0.00	0.00
8,300.0	90.00	180.00	7,503.0	-1,449.2	208.0	1,453.0	0.00	0.00	0.00
8,400.0	90.00	180.00	7,503.0	-1,549.2	208.0	1,553.0	0.00	0.00	0.00
8,500.0	90.00	180.00	7,503.0	-1,649.2	208.0	1,653.0	0.00	0.00	0.00
8,600.0	90.00	180.00	7,503.0	-1,749.2	208.0	1,753.0	0.00	0.00	0.00
8,700.0	90.00	180.00	7,503.0	-1,849.2	208.0	1,853.0	0.00	0.00	0.00
8,800.0	90.00	180.00	7,503.0	-1,949.2	208.0	1,952.9	0.00	0.00	0.00
8,900.0	90.00	180.00	7,503.0	-2,049.2	208.0	2,052.9	0.00	0.00	0.00
9,000.0	90.00	180.00	7,503.0	-2,149.2	208.0	2,152.9	0.00	0.00	0.00
9,100.0	90.00	180.00	7,503.0	-2,249.2	208.0	2,252.9	0.00	0.00	0.00
9,200.0	90.00	180.00	7,503.0	-2,349.2	208.0	2,352.9	0.00	0.00	0.00
9,300.0	90.00	180.00	7,503.0	-2,449.2	208.0	2,452.8	0.00	0.00	0.00
9,400.0	90.00	180.00	7,503.0	-2,549.2	208.0	2,552.8	0.00	0.00	0.00
9,500.0	90.00	180.00	7,503.0	-2,649.2	208.0	2,652.8	0.00	0.00	0.00
9,600.0	90.00	180.00	7,503.0	-2,749.2	208.0	2,752.8	0.00	0.00	0.00
9,700.0	90.00	180.00	7,503.0	-2,849.2	208.0	2,852.8	0.00	0.00	0.00
9,800.0	90.00	180.00	7,503.0	-2,949.2	208.0	2,952.7	0.00	0.00	0.00

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<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	KB @ 5009.0usft
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<b>Well:</b>	Weyburn 7-66-3-10-8C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan 3		

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)
9,900.0	90.00	180.00	7,503.0	-3,049.2	208.0	3,052.7	0.00	0.00	0.00
10,000.0	90.00	180.00	7,503.0	-3,149.2	208.0	3,152.7	0.00	0.00	0.00
10,100.0	90.00	180.00	7,503.0	-3,249.2	208.0	3,252.7	0.00	0.00	0.00
10,200.0	90.00	180.00	7,503.0	-3,349.2	208.0	3,352.7	0.00	0.00	0.00
10,300.0	90.00	180.00	7,503.0	-3,449.2	208.0	3,452.6	0.00	0.00	0.00
10,400.0	90.00	180.00	7,503.0	-3,549.2	208.0	3,552.6	0.00	0.00	0.00
10,500.0	90.00	180.00	7,503.0	-3,649.2	208.0	3,652.6	0.00	0.00	0.00
10,600.0	90.00	180.00	7,503.0	-3,749.2	208.0	3,752.6	0.00	0.00	0.00
10,700.0	90.00	180.00	7,503.0	-3,849.2	208.0	3,852.6	0.00	0.00	0.00
10,800.0	90.00	180.00	7,503.0	-3,949.2	208.0	3,952.6	0.00	0.00	0.00
10,900.0	90.00	180.00	7,503.0	-4,049.2	208.0	4,052.5	0.00	0.00	0.00
11,000.0	90.00	180.00	7,503.0	-4,149.2	208.0	4,152.5	0.00	0.00	0.00
11,100.0	90.00	180.00	7,503.0	-4,249.2	208.0	4,252.5	0.00	0.00	0.00
11,200.0	90.00	180.00	7,503.0	-4,349.2	208.0	4,352.5	0.00	0.00	0.00
11,300.0	90.00	180.00	7,503.0	-4,449.2	208.0	4,452.5	0.00	0.00	0.00
11,400.0	90.00	180.00	7,503.0	-4,549.2	208.0	4,552.4	0.00	0.00	0.00
11,500.0	90.00	180.00	7,503.0	-4,649.2	208.0	4,652.4	0.00	0.00	0.00
11,600.0	90.00	180.00	7,503.0	-4,749.2	208.0	4,752.4	0.00	0.00	0.00
11,700.0	90.00	180.00	7,503.0	-4,849.2	208.0	4,852.4	0.00	0.00	0.00
11,800.0	90.00	180.00	7,503.0	-4,949.2	208.0	4,952.4	0.00	0.00	0.00
11,900.0	90.00	180.00	7,503.0	-5,049.2	208.0	5,052.3	0.00	0.00	0.00
12,000.0	90.00	180.00	7,503.0	-5,149.2	208.0	5,152.3	0.00	0.00	0.00
12,100.0	90.00	180.00	7,503.0	-5,249.2	208.0	5,252.3	0.00	0.00	0.00
12,200.0	90.00	180.00	7,503.0	-5,349.2	208.0	5,352.3	0.00	0.00	0.00
12,300.0	90.00	180.00	7,503.0	-5,449.2	208.0	5,452.3	0.00	0.00	0.00
12,400.0	90.00	180.00	7,503.0	-5,549.2	208.0	5,552.2	0.00	0.00	0.00
12,500.0	90.00	180.00	7,503.0	-5,649.2	208.0	5,652.2	0.00	0.00	0.00
12,600.0	90.00	180.00	7,503.0	-5,749.2	208.0	5,752.2	0.00	0.00	0.00
12,700.0	90.00	180.00	7,503.0	-5,849.2	208.0	5,852.2	0.00	0.00	0.00
12,800.0	90.00	180.00	7,503.0	-5,949.2	208.0	5,952.2	0.00	0.00	0.00
12,900.0	90.00	180.00	7,503.0	-6,049.2	208.0	6,052.1	0.00	0.00	0.00
13,000.0	90.00	180.00	7,503.0	-6,149.2	208.0	6,152.1	0.00	0.00	0.00
13,100.0	90.00	180.00	7,503.0	-6,249.2	208.0	6,252.1	0.00	0.00	0.00
13,200.0	90.00	180.00	7,503.0	-6,349.2	208.0	6,352.1	0.00	0.00	0.00
13,300.0	90.00	180.00	7,503.0	-6,449.2	208.0	6,452.1	0.00	0.00	0.00
13,400.0	90.00	180.00	7,503.0	-6,549.2	208.0	6,552.0	0.00	0.00	0.00
13,500.0	90.00	180.00	7,503.0	-6,649.2	208.0	6,652.0	0.00	0.00	0.00
13,600.0	90.00	180.00	7,503.0	-6,749.2	208.0	6,752.0	0.00	0.00	0.00
13,700.0	90.00	180.00	7,503.0	-6,849.2	208.0	6,852.0	0.00	0.00	0.00
13,800.0	90.00	180.00	7,503.0	-6,949.2	208.0	6,952.0	0.00	0.00	0.00
13,900.0	90.00	180.00	7,503.0	-7,049.2	208.0	7,051.9	0.00	0.00	0.00
14,000.0	90.00	180.00	7,503.0	-7,149.2	208.0	7,151.9	0.00	0.00	0.00
14,100.0	90.00	180.00	7,503.0	-7,249.2	208.0	7,251.9	0.00	0.00	0.00
14,200.0	90.00	180.00	7,503.0	-7,349.2	208.0	7,351.9	0.00	0.00	0.00
14,300.0	90.00	180.00	7,503.0	-7,449.2	208.0	7,451.9	0.00	0.00	0.00
14,400.0	90.00	180.00	7,503.0	-7,549.2	208.0	7,551.8	0.00	0.00	0.00
14,500.0	90.00	180.00	7,503.0	-7,649.2	208.0	7,651.8	0.00	0.00	0.00
14,600.0	90.00	180.00	7,503.0	-7,749.2	208.0	7,751.8	0.00	0.00	0.00
14,700.0	90.00	180.00	7,503.0	-7,849.2	208.0	7,851.8	0.00	0.00	0.00
14,800.0	90.00	180.00	7,503.0	-7,949.2	208.0	7,951.8	0.00	0.00	0.00
14,900.0	90.00	180.00	7,503.0	-8,049.2	208.0	8,051.7	0.00	0.00	0.00
15,000.0	90.00	180.00	7,503.0	-8,149.2	208.0	8,151.7	0.00	0.00	0.00
15,100.0	90.00	180.00	7,503.0	-8,249.2	208.0	8,251.7	0.00	0.00	0.00
15,200.0	90.00	180.00	7,503.0	-8,349.2	208.0	8,351.7	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM Server Database	<b>Local Co-ordinate Reference:</b>	Well Weyburn 7-66-3-10-8C
<b>Company:</b>	Enerplus Resources (USA) Corporation	<b>TVD Reference:</b>	KB @ 5009.0usft
<b>Project:</b>	Weld County, CO	<b>MD Reference:</b>	KB @ 5009.0usft
<b>Site:</b>	SEC 34 T8N-R66W	<b>North Reference:</b>	True
<b>Well:</b>	Weyburn 7-66-3-10-8C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan 3		

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)	
15,300.0	90.00	180.00	7,503.0	-8,449.2	208.0	8,451.7	0.00	0.00	0.00	
15,400.0	90.00	180.00	7,503.0	-8,549.2	208.0	8,551.6	0.00	0.00	0.00	
15,500.0	90.00	180.00	7,503.0	-8,649.2	208.0	8,651.6	0.00	0.00	0.00	
15,600.0	90.00	180.00	7,503.0	-8,749.2	208.0	8,751.6	0.00	0.00	0.00	
15,700.0	90.00	180.00	7,503.0	-8,849.2	208.0	8,851.6	0.00	0.00	0.00	
15,800.0	90.00	180.00	7,503.0	-8,949.2	208.0	8,951.6	0.00	0.00	0.00	
15,900.0	90.00	180.00	7,503.0	-9,049.2	208.0	9,051.5	0.00	0.00	0.00	
16,000.0	90.00	180.00	7,503.0	-9,149.2	208.0	9,151.5	0.00	0.00	0.00	
16,100.0	90.00	180.00	7,503.0	-9,249.2	208.0	9,251.5	0.00	0.00	0.00	
16,200.0	90.00	180.00	7,503.0	-9,349.2	208.0	9,351.5	0.00	0.00	0.00	
16,300.0	90.00	180.00	7,503.0	-9,449.2	208.0	9,451.5	0.00	0.00	0.00	
16,400.0	90.00	180.00	7,503.0	-9,549.2	208.0	9,551.4	0.00	0.00	0.00	
16,500.0	90.00	180.00	7,503.0	-9,649.2	208.0	9,651.4	0.00	0.00	0.00	
16,600.0	90.00	180.00	7,503.0	-9,749.2	208.0	9,751.4	0.00	0.00	0.00	
16,700.0	90.00	180.00	7,503.0	-9,849.2	208.0	9,851.4	0.00	0.00	0.00	
16,800.0	90.00	180.00	7,503.0	-9,949.2	208.0	9,951.4	0.00	0.00	0.00	
16,900.0	90.00	180.00	7,503.0	-10,049.2	208.0	10,051.4	0.00	0.00	0.00	
17,000.0	90.00	180.00	7,503.0	-10,149.2	208.0	10,151.3	0.00	0.00	0.00	
17,100.0	90.00	180.00	7,503.0	-10,249.2	208.0	10,251.3	0.00	0.00	0.00	
17,200.0	90.00	180.00	7,503.0	-10,349.2	208.0	10,351.3	0.00	0.00	0.00	
17,300.0	90.00	180.00	7,503.0	-10,449.2	208.0	10,451.3	0.00	0.00	0.00	
17,335.4	90.00	180.00	7,503.0	-10,484.6	208.0	10,486.7	0.00	0.00	0.00	
End of Lateral										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
Weyburn 7-66-3-10-8C (	0.00	0.00	7,503.0	-10,484.6	208.0	1,456,417.01	3,206,328.07	40° 35' 2.008 N		104° 45' 25.736 W
- hit/miss target										
- Shape										
- plan hits target center										
- 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
7,849.6	7,503.0	Intermediate			7	7

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"	
1,828.0	1,827.6	-13.2	4.8	Begin 4.92° Tangent	
6,996.8	6,977.4	-429.8	156.4	KOP - Start 10°/100' Build	
7,849.6	7,503.0	-998.9	205.2	7" - 528' FNL & 788' FEL	
17,335.4	7,503.0	-10,484.6	208.0	End of Lateral	