

Project: Weld County, CO
 Site: SEC 34, T8N-R66W
 Well: Weyburn 7-66-3-10-8C
 Wellbore: Hz
 Design: Plan 1

Reference Details

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Latitude: 40° 36' 43.733 N
 Longitude: 104° 45' 28.382 W
 Grid Convergence: 0.48° West
 Ground Elevation: 4997.0
 KB Elevation: Well @ 5013.0usft

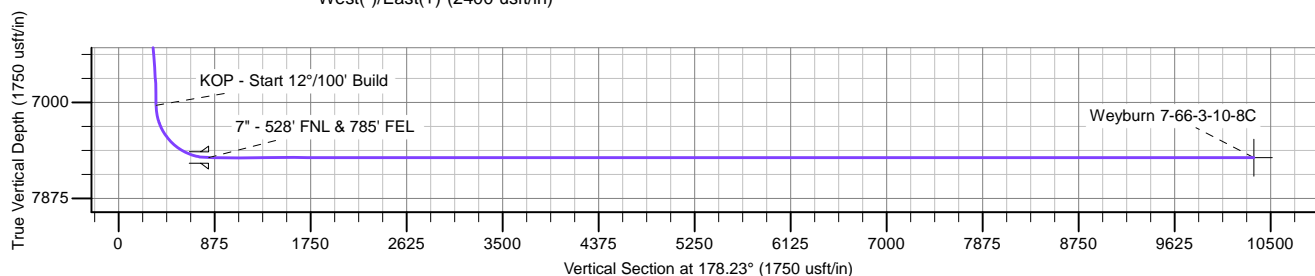
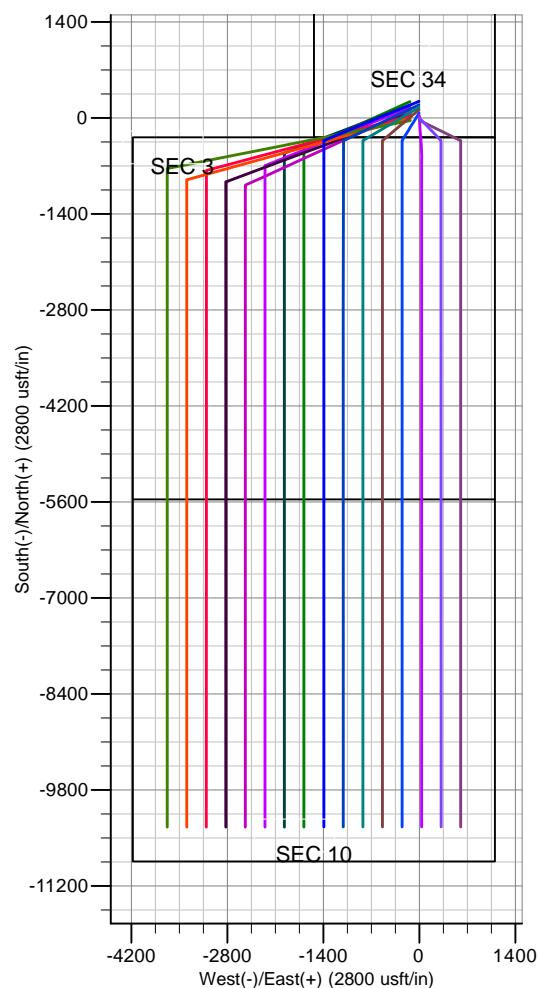
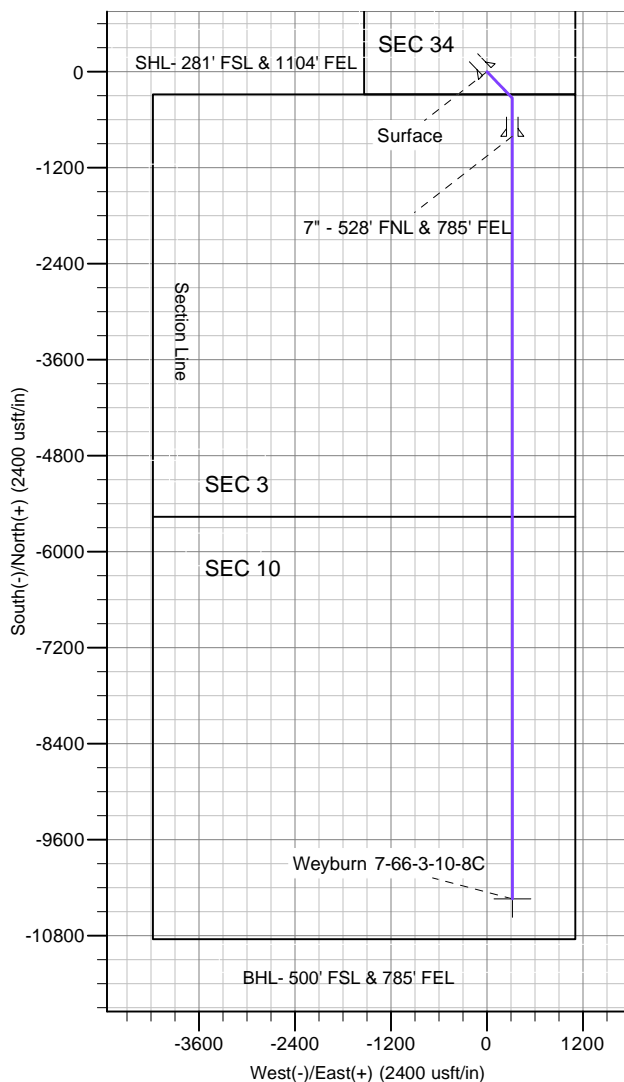
RPM Consulting, Inc.
 1600 Broadway, Suite 1510
 Denver, CO 80013
 303-595-7625

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
1524.9	0.00	0.00	1524.9	0.0	0.0	0.00	0.00	0.0
1774.9	5.00	136.10	1774.6	-7.9	7.6	2.00	136.10	8.1
6795.2	5.00	136.10	6775.8	-323.1	310.9	0.00	0.00	332.6
7045.2	0.00	0.00	7025.5	-331.0	318.5	2.00	180.00	340.7
7795.2	90.00	180.00	7503.0	-808.5	318.5	12.00	180.00	817.9
7825.4	90.00	180.00	7503.0	-838.6	318.5	0.01	-94.02	848.1
17327.8	90.00	180.00	7503.0	-10341.0	319.0	0.00	0.00	10345.9

CASING DETAILS

TVD	MD	Name
1500.0	1500.0	Surface
7503.0	7795.2	Intermediate



Enerplus Resources (USA) Corporation

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

Hz

Plan: Plan 1

Standard Planning Report

05 May, 2017

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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	Weyburn 7-66-3-10-8C					
Well Position	+N/-S	37.5 usft	Northing:	1,466,709.38 usft	Latitude:	40° 36' 43.733 N
	+E/-W	129.4 usft	Easting:	3,206,037.78 usft	Longitude:	104° 45' 28.382 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	4,997.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/5/2017	8.08	67.02	52,621

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.23

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,524.9	0.00	0.00	1,524.9	0.0	0.0	0.00	0.00	0.00	0.00	
1,774.9	5.00	136.10	1,774.6	-7.9	7.6	2.00	2.00	0.00	136.10	
6,795.2	5.00	136.10	6,775.8	-323.1	310.9	0.00	0.00	0.00	0.00	
7,045.2	0.00	0.00	7,025.5	-331.0	318.5	2.00	-2.00	0.00	180.00	
7,795.2	90.00	180.00	7,503.0	-808.5	318.5	12.00	12.00	0.00	180.00	
7,825.4	90.00	180.00	7,503.0	-838.6	318.5	0.01	0.00	-0.01	-94.02	
17,327.8	90.00	180.00	7,503.0	-10,341.0	319.0	0.00	0.00	0.00	0.00	Weyburn 7-66-3-10-8C

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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									
1,524.9	0.00	0.00	1,524.9	0.0	0.0	0.0	0.00	0.00	0.00
Begin Nudge									
1,600.0	1.50	136.10	1,600.0	-0.7	0.7	0.7	2.00	2.00	0.00
1,700.0	3.50	136.10	1,699.9	-3.9	3.7	4.0	2.00	2.00	0.00
1,774.9	5.00	136.10	1,774.6	-7.9	7.6	8.1	2.00	2.00	0.00
1,800.0	5.00	136.10	1,799.6	-9.4	9.1	9.7	0.00	0.00	0.00
1,900.0	5.00	136.10	1,899.2	-15.7	15.1	16.2	0.00	0.00	0.00
2,000.0	5.00	136.10	1,998.8	-22.0	21.2	22.6	0.00	0.00	0.00
2,100.0	5.00	136.10	2,098.4	-28.3	27.2	29.1	0.00	0.00	0.00
2,200.0	5.00	136.10	2,198.1	-34.6	33.2	35.6	0.00	0.00	0.00
2,300.0	5.00	136.10	2,297.7	-40.8	39.3	42.0	0.00	0.00	0.00
2,400.0	5.00	136.10	2,397.3	-47.1	45.3	48.5	0.00	0.00	0.00
2,500.0	5.00	136.10	2,496.9	-53.4	51.4	55.0	0.00	0.00	0.00
2,600.0	5.00	136.10	2,596.5	-59.7	57.4	61.4	0.00	0.00	0.00
2,700.0	5.00	136.10	2,696.2	-66.0	63.5	67.9	0.00	0.00	0.00
2,800.0	5.00	136.10	2,795.8	-72.2	69.5	74.3	0.00	0.00	0.00
2,900.0	5.00	136.10	2,895.4	-78.5	75.5	80.8	0.00	0.00	0.00
3,000.0	5.00	136.10	2,995.0	-84.8	81.6	87.3	0.00	0.00	0.00
3,100.0	5.00	136.10	3,094.6	-91.1	87.6	93.7	0.00	0.00	0.00
3,200.0	5.00	136.10	3,194.3	-97.4	93.7	100.2	0.00	0.00	0.00
3,300.0	5.00	136.10	3,293.9	-103.6	99.7	106.7	0.00	0.00	0.00
3,400.0	5.00	136.10	3,393.5	-109.9	105.8	113.1	0.00	0.00	0.00
3,500.0	5.00	136.10	3,493.1	-116.2	111.8	119.6	0.00	0.00	0.00
3,600.0	5.00	136.10	3,592.7	-122.5	117.8	126.1	0.00	0.00	0.00
3,700.0	5.00	136.10	3,692.4	-128.8	123.9	132.5	0.00	0.00	0.00
3,800.0	5.00	136.10	3,792.0	-135.0	129.9	139.0	0.00	0.00	0.00
3,900.0	5.00	136.10	3,891.6	-141.3	136.0	145.4	0.00	0.00	0.00
4,000.0	5.00	136.10	3,991.2	-147.6	142.0	151.9	0.00	0.00	0.00
4,100.0	5.00	136.10	4,090.8	-153.9	148.1	158.4	0.00	0.00	0.00
4,200.0	5.00	136.10	4,190.5	-160.2	154.1	164.8	0.00	0.00	0.00
4,300.0	5.00	136.10	4,290.1	-166.4	160.2	171.3	0.00	0.00	0.00
4,400.0	5.00	136.10	4,389.7	-172.7	166.2	177.8	0.00	0.00	0.00
4,500.0	5.00	136.10	4,489.3	-179.0	172.2	184.2	0.00	0.00	0.00
4,600.0	5.00	136.10	4,588.9	-185.3	178.3	190.7	0.00	0.00	0.00
4,700.0	5.00	136.10	4,688.6	-191.6	184.3	197.1	0.00	0.00	0.00
4,740.6	5.00	136.10	4,729.0	-194.1	186.8	199.8	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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)
TERRY									
4,800.0	5.00	136.10	4,788.2	-197.8	190.4	203.6	0.00	0.00	0.00
4,900.0	5.00	136.10	4,887.8	-204.1	196.4	210.1	0.00	0.00	0.00
5,000.0	5.00	136.10	4,987.4	-210.4	202.5	216.5	0.00	0.00	0.00
5,100.0	5.00	136.10	5,087.0	-216.7	208.5	223.0	0.00	0.00	0.00
5,162.2	5.00	136.10	5,149.0	-220.6	212.3	227.0	0.00	0.00	0.00
HYGENE									
5,200.0	5.00	136.10	5,186.6	-223.0	214.5	229.5	0.00	0.00	0.00
5,300.0	5.00	136.10	5,286.3	-229.2	220.6	235.9	0.00	0.00	0.00
5,400.0	5.00	136.10	5,385.9	-235.5	226.6	242.4	0.00	0.00	0.00
5,500.0	5.00	136.10	5,485.5	-241.8	232.7	248.9	0.00	0.00	0.00
5,600.0	5.00	136.10	5,585.1	-248.1	238.7	255.3	0.00	0.00	0.00
5,700.0	5.00	136.10	5,684.7	-254.4	244.8	261.8	0.00	0.00	0.00
5,800.0	5.00	136.10	5,784.4	-260.6	250.8	268.2	0.00	0.00	0.00
5,900.0	5.00	136.10	5,884.0	-266.9	256.8	274.7	0.00	0.00	0.00
6,000.0	5.00	136.10	5,983.6	-273.2	262.9	281.2	0.00	0.00	0.00
6,100.0	5.00	136.10	6,083.2	-279.5	268.9	287.6	0.00	0.00	0.00
6,200.0	5.00	136.10	6,182.8	-285.8	275.0	294.1	0.00	0.00	0.00
6,241.3	5.00	136.10	6,224.0	-288.4	277.5	296.8	0.00	0.00	0.00
Lower Pierre marker									
6,300.0	5.00	136.10	6,282.5	-292.0	281.0	300.6	0.00	0.00	0.00
6,400.0	5.00	136.10	6,382.1	-298.3	287.1	307.0	0.00	0.00	0.00
6,500.0	5.00	136.10	6,481.7	-304.6	293.1	313.5	0.00	0.00	0.00
6,600.0	5.00	136.10	6,581.3	-310.9	299.1	320.0	0.00	0.00	0.00
6,700.0	5.00	136.10	6,680.9	-317.2	305.2	326.4	0.00	0.00	0.00
6,795.2	5.00	136.10	6,775.8	-323.1	310.9	332.6	0.00	0.00	0.00
6,800.0	4.90	136.10	6,780.6	-323.4	311.2	332.9	2.00	-2.00	0.00
6,900.0	2.90	136.10	6,880.3	-328.3	315.9	337.9	2.00	-2.00	0.00
7,000.0	0.90	136.10	6,980.3	-330.7	318.3	340.4	2.00	-2.00	0.00
7,045.2	0.00	136.10	7,025.5	-331.0	318.5	340.7	2.00	-2.00	0.00
KOP - Start 12°/100' Build									
7,100.0	6.57	180.00	7,080.1	-334.1	318.5	343.8	11.99	11.99	80.10
7,139.3	11.29	180.00	7,119.0	-340.2	318.5	349.9	12.00	12.00	0.00
SHARON SPRINGS									
7,200.0	18.57	180.00	7,177.6	-355.9	318.5	365.5	12.00	12.00	0.00
7,205.7	19.26	180.00	7,183.0	-357.7	318.5	367.4	12.00	12.00	0.00
NIOBRARA A CHALK									
7,229.3	22.08	180.00	7,205.0	-366.0	318.5	375.7	12.00	12.00	0.00
NIOBRARA A MARL									
7,281.2	28.32	180.00	7,252.0	-388.1	318.5	397.8	12.00	12.00	0.00
NIOBRARA B TOP									
7,300.0	30.57	180.00	7,268.3	-397.4	318.5	407.0	12.00	12.00	0.00
7,342.6	35.68	180.00	7,304.0	-420.6	318.5	430.3	12.00	12.00	0.00
NIOBRARA B CHALK									
7,400.0	42.57	180.00	7,348.5	-456.8	318.5	466.4	12.00	12.00	0.00
7,408.9	43.64	180.00	7,355.0	-462.9	318.5	472.5	12.00	12.00	0.00
NIOBRARA B MARL									
7,450.8	48.66	180.00	7,384.0	-493.1	318.5	502.7	12.00	12.00	0.00
NIOBRARA C CHALK									
7,500.0	54.57	180.00	7,414.6	-531.7	318.5	541.3	12.00	12.00	0.00
7,525.9	57.68	180.00	7,429.0	-553.2	318.5	562.8	12.00	12.00	0.00
NIOBRARA C MARL									

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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)
7,577.1	63.82	180.00	7,454.0	-597.8	318.5	607.4	12.00	12.00	0.00
NIORARA D CHALK									
7,600.0	66.57	180.00	7,463.6	-618.6	318.5	628.1	12.00	12.00	0.00
7,646.6	72.16	180.00	7,480.0	-662.2	318.5	671.7	12.00	12.00	0.00
FORT HAYS									
7,700.0	78.57	180.00	7,493.5	-713.9	318.5	723.3	12.00	12.00	0.00
7,795.2	90.00	180.00	7,503.0	-808.4	318.5	817.9	12.00	12.00	0.00
7" - 528' FNL & 785' FEL - CODELL - Intermediate									
7,800.0	90.00	180.00	7,503.0	-813.2	318.5	822.7	0.10	0.09	-0.01
7,825.4	90.00	180.00	7,503.0	-838.6	318.5	848.1	0.01	0.00	-0.01
7,900.0	90.00	180.00	7,503.0	-913.2	318.5	922.6	0.00	0.00	0.00
8,000.0	90.00	180.00	7,503.0	-1,013.2	318.5	1,022.6	0.00	0.00	0.00
8,100.0	90.00	180.00	7,503.0	-1,113.2	318.5	1,122.5	0.00	0.00	0.00
8,200.0	90.00	180.00	7,503.0	-1,213.2	318.5	1,222.5	0.00	0.00	0.00
8,300.0	90.00	180.00	7,503.0	-1,313.2	318.5	1,322.4	0.00	0.00	0.00
8,400.0	90.00	180.00	7,503.0	-1,413.2	318.5	1,422.4	0.00	0.00	0.00
8,500.0	90.00	180.00	7,503.0	-1,513.2	318.5	1,522.3	0.00	0.00	0.00
8,600.0	90.00	180.00	7,503.0	-1,613.2	318.5	1,622.3	0.00	0.00	0.00
8,700.0	90.00	180.00	7,503.0	-1,713.2	318.5	1,722.2	0.00	0.00	0.00
8,800.0	90.00	180.00	7,503.0	-1,813.2	318.6	1,822.2	0.00	0.00	0.00
8,900.0	90.00	180.00	7,503.0	-1,913.2	318.6	1,922.1	0.00	0.00	0.00
9,000.0	90.00	180.00	7,503.0	-2,013.2	318.6	2,022.1	0.00	0.00	0.00
9,100.0	90.00	180.00	7,503.0	-2,113.2	318.6	2,122.0	0.00	0.00	0.00
9,200.0	90.00	180.00	7,503.0	-2,213.2	318.6	2,222.0	0.00	0.00	0.00
9,300.0	90.00	180.00	7,503.0	-2,313.2	318.6	2,321.9	0.00	0.00	0.00
9,400.0	90.00	180.00	7,503.0	-2,413.2	318.6	2,421.9	0.00	0.00	0.00
9,500.0	90.00	180.00	7,503.0	-2,513.2	318.6	2,521.9	0.00	0.00	0.00
9,600.0	90.00	180.00	7,503.0	-2,613.2	318.6	2,621.8	0.00	0.00	0.00
9,700.0	90.00	180.00	7,503.0	-2,713.2	318.6	2,721.8	0.00	0.00	0.00
9,800.0	90.00	180.00	7,503.0	-2,813.2	318.6	2,821.7	0.00	0.00	0.00
9,900.0	90.00	180.00	7,503.0	-2,913.2	318.6	2,921.7	0.00	0.00	0.00
10,000.0	90.00	180.00	7,503.0	-3,013.2	318.6	3,021.6	0.00	0.00	0.00
10,100.0	90.00	180.00	7,503.0	-3,113.2	318.6	3,121.6	0.00	0.00	0.00
10,200.0	90.00	180.00	7,503.0	-3,213.2	318.6	3,221.5	0.00	0.00	0.00
10,300.0	90.00	180.00	7,503.0	-3,313.2	318.6	3,321.5	0.00	0.00	0.00
10,400.0	90.00	180.00	7,503.0	-3,413.2	318.6	3,421.4	0.00	0.00	0.00
10,500.0	90.00	180.00	7,503.0	-3,513.2	318.6	3,521.4	0.00	0.00	0.00
10,600.0	90.00	180.00	7,503.0	-3,613.2	318.6	3,621.3	0.00	0.00	0.00
10,700.0	90.00	180.00	7,503.0	-3,713.2	318.7	3,721.3	0.00	0.00	0.00
10,800.0	90.00	180.00	7,503.0	-3,813.2	318.7	3,821.2	0.00	0.00	0.00
10,900.0	90.00	180.00	7,503.0	-3,913.2	318.7	3,921.2	0.00	0.00	0.00
11,000.0	90.00	180.00	7,503.0	-4,013.2	318.7	4,021.1	0.00	0.00	0.00
11,100.0	90.00	180.00	7,503.0	-4,113.2	318.7	4,121.1	0.00	0.00	0.00
11,200.0	90.00	180.00	7,503.0	-4,213.2	318.7	4,221.0	0.00	0.00	0.00
11,300.0	90.00	180.00	7,503.0	-4,313.2	318.7	4,321.0	0.00	0.00	0.00
11,400.0	90.00	180.00	7,503.0	-4,413.2	318.7	4,421.0	0.00	0.00	0.00
11,500.0	90.00	180.00	7,503.0	-4,513.2	318.7	4,520.9	0.00	0.00	0.00
11,600.0	90.00	180.00	7,503.0	-4,613.2	318.7	4,620.9	0.00	0.00	0.00
11,700.0	90.00	180.00	7,503.0	-4,713.2	318.7	4,720.8	0.00	0.00	0.00
11,800.0	90.00	180.00	7,503.0	-4,813.2	318.7	4,820.8	0.00	0.00	0.00
11,900.0	90.00	180.00	7,503.0	-4,913.2	318.7	4,920.7	0.00	0.00	0.00
12,000.0	90.00	180.00	7,503.0	-5,013.2	318.7	5,020.7	0.00	0.00	0.00
12,100.0	90.00	180.00	7,503.0	-5,113.2	318.7	5,120.6	0.00	0.00	0.00

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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)
12,200.0	90.00	180.00	7,503.0	-5,213.2	318.7	5,220.6	0.00	0.00	0.00
12,300.0	90.00	180.00	7,503.0	-5,313.2	318.7	5,320.5	0.00	0.00	0.00
12,400.0	90.00	180.00	7,503.0	-5,413.2	318.7	5,420.5	0.00	0.00	0.00
12,500.0	90.00	180.00	7,503.0	-5,513.2	318.7	5,520.4	0.00	0.00	0.00
12,600.0	90.00	180.00	7,503.0	-5,613.2	318.8	5,620.4	0.00	0.00	0.00
12,700.0	90.00	180.00	7,503.0	-5,713.2	318.8	5,720.3	0.00	0.00	0.00
12,800.0	90.00	180.00	7,503.0	-5,813.2	318.8	5,820.3	0.00	0.00	0.00
12,900.0	90.00	180.00	7,503.0	-5,913.2	318.8	5,920.2	0.00	0.00	0.00
13,000.0	90.00	180.00	7,503.0	-6,013.2	318.8	6,020.2	0.00	0.00	0.00
13,100.0	90.00	180.00	7,503.0	-6,113.2	318.8	6,120.1	0.00	0.00	0.00
13,200.0	90.00	180.00	7,503.0	-6,213.2	318.8	6,220.1	0.00	0.00	0.00
13,300.0	90.00	180.00	7,503.0	-6,313.2	318.8	6,320.1	0.00	0.00	0.00
13,400.0	90.00	180.00	7,503.0	-6,413.2	318.8	6,420.0	0.00	0.00	0.00
13,500.0	90.00	180.00	7,503.0	-6,513.2	318.8	6,520.0	0.00	0.00	0.00
13,600.0	90.00	180.00	7,503.0	-6,613.2	318.8	6,619.9	0.00	0.00	0.00
13,700.0	90.00	180.00	7,503.0	-6,713.2	318.8	6,719.9	0.00	0.00	0.00
13,800.0	90.00	180.00	7,503.0	-6,813.2	318.8	6,819.8	0.00	0.00	0.00
13,900.0	90.00	180.00	7,503.0	-6,913.2	318.8	6,919.8	0.00	0.00	0.00
14,000.0	90.00	180.00	7,503.0	-7,013.2	318.8	7,019.7	0.00	0.00	0.00
14,100.0	90.00	180.00	7,503.0	-7,113.2	318.8	7,119.7	0.00	0.00	0.00
14,200.0	90.00	180.00	7,503.0	-7,213.2	318.8	7,219.6	0.00	0.00	0.00
14,300.0	90.00	180.00	7,503.0	-7,313.2	318.8	7,319.6	0.00	0.00	0.00
14,400.0	90.00	180.00	7,503.0	-7,413.2	318.8	7,419.5	0.00	0.00	0.00
14,500.0	90.00	180.00	7,503.0	-7,513.2	318.9	7,519.5	0.00	0.00	0.00
14,600.0	90.00	180.00	7,503.0	-7,613.2	318.9	7,619.4	0.00	0.00	0.00
14,700.0	90.00	180.00	7,503.0	-7,713.2	318.9	7,719.4	0.00	0.00	0.00
14,800.0	90.00	180.00	7,503.0	-7,813.2	318.9	7,819.3	0.00	0.00	0.00
14,900.0	90.00	180.00	7,503.0	-7,913.2	318.9	7,919.3	0.00	0.00	0.00
15,000.0	90.00	180.00	7,503.0	-8,013.2	318.9	8,019.2	0.00	0.00	0.00
15,100.0	90.00	180.00	7,503.0	-8,113.2	318.9	8,119.2	0.00	0.00	0.00
15,200.0	90.00	180.00	7,503.0	-8,213.2	318.9	8,219.2	0.00	0.00	0.00
15,300.0	90.00	180.00	7,503.0	-8,313.2	318.9	8,319.1	0.00	0.00	0.00
15,400.0	90.00	180.00	7,503.0	-8,413.2	318.9	8,419.1	0.00	0.00	0.00
15,500.0	90.00	180.00	7,503.0	-8,513.2	318.9	8,519.0	0.00	0.00	0.00
15,600.0	90.00	180.00	7,503.0	-8,613.2	318.9	8,619.0	0.00	0.00	0.00
15,700.0	90.00	180.00	7,503.0	-8,713.2	318.9	8,718.9	0.00	0.00	0.00
15,800.0	90.00	180.00	7,503.0	-8,813.2	318.9	8,818.9	0.00	0.00	0.00
15,900.0	90.00	180.00	7,503.0	-8,913.2	318.9	8,918.8	0.00	0.00	0.00
16,000.0	90.00	180.00	7,503.0	-9,013.2	318.9	9,018.8	0.00	0.00	0.00
16,100.0	90.00	180.00	7,503.0	-9,113.2	318.9	9,118.7	0.00	0.00	0.00
16,200.0	90.00	180.00	7,503.0	-9,213.2	318.9	9,218.7	0.00	0.00	0.00
16,300.0	90.00	180.00	7,503.0	-9,313.2	318.9	9,318.6	0.00	0.00	0.00
16,400.0	90.00	180.00	7,503.0	-9,413.2	319.0	9,418.6	0.00	0.00	0.00
16,500.0	90.00	180.00	7,503.0	-9,513.2	319.0	9,518.5	0.00	0.00	0.00
16,600.0	90.00	180.00	7,503.0	-9,613.2	319.0	9,618.5	0.00	0.00	0.00
16,700.0	90.00	180.00	7,503.0	-9,713.2	319.0	9,718.4	0.00	0.00	0.00
16,800.0	90.00	180.00	7,503.0	-9,813.2	319.0	9,818.4	0.00	0.00	0.00
16,900.0	90.00	180.00	7,503.0	-9,913.2	319.0	9,918.3	0.00	0.00	0.00
17,000.0	90.00	180.00	7,503.0	-10,013.2	319.0	10,018.3	0.00	0.00	0.00
17,100.0	90.00	180.00	7,503.0	-10,113.2	319.0	10,118.3	0.00	0.00	0.00
17,200.0	90.00	180.00	7,503.0	-10,213.2	319.0	10,218.2	0.00	0.00	0.00
17,300.0	90.00	180.00	7,503.0	-10,313.2	319.0	10,318.2	0.00	0.00	0.00
17,327.8	90.00	180.00	7,503.0	-10,341.0	319.0	10,345.9	0.00	0.00	0.00
Total Depth - Weyburn 7-66-3-10-8C									

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Weyburn 7-66-3-10-8C
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5013.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5013.0usft
Site:	SEC 34, T8N-R66W	North Reference:	True
Well:	Weyburn 7-66-3-10-8C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan 1		

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)

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									
Weyburn 7-66-3-10-8C	0.00	0.00	7,503.0	-10,341.0	319.0	1,456,371.41	3,206,443.31	40° 35' 1.547 N	104° 45' 24.248 W
- 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	
7,795.2	7,503.0	Intermediate	7	7	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,740.6	4,729.0	TERRY				
5,162.2	5,149.0	HYGENE				
6,241.3	6,224.0	Lower Pierre marker				
7,139.3	7,119.0	SHARON SPRINGS				
7,205.7	7,183.0	NIOBRARA A CHALK				
7,229.3	7,205.0	NIOBRARA A MARL				
7,281.2	7,252.0	NIOBRARA B TOP				
7,342.6	7,304.0	NIOBRARA B CHALK				
7,408.9	7,355.0	NIOBRARA B MARL				
7,450.8	7,384.0	NIOBRARA C CHALK				
7,525.9	7,429.0	NIOBRARA C MARL				
7,577.1	7,454.0	NIOBRARA D CHALK				
7,646.6	7,480.0	FORT HAYS				
7,795.2	7,503.0	CODELL				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	9-5/8"	
1,524.9	1,524.9	0.0	0.0	Begin Nudge	
7,045.2	7,025.5	-331.0	318.5	KOP - Start 12"/100' Build	
7,795.2	7,503.0	-808.4	318.5	7" - 528' FNL & 785' FEL	
17,327.8	7,503.0	-10,341.0	319.0	Total Depth	