

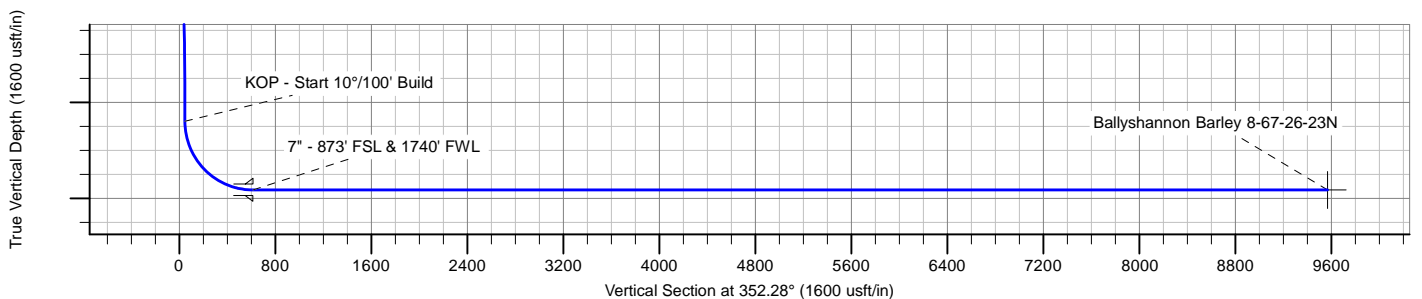
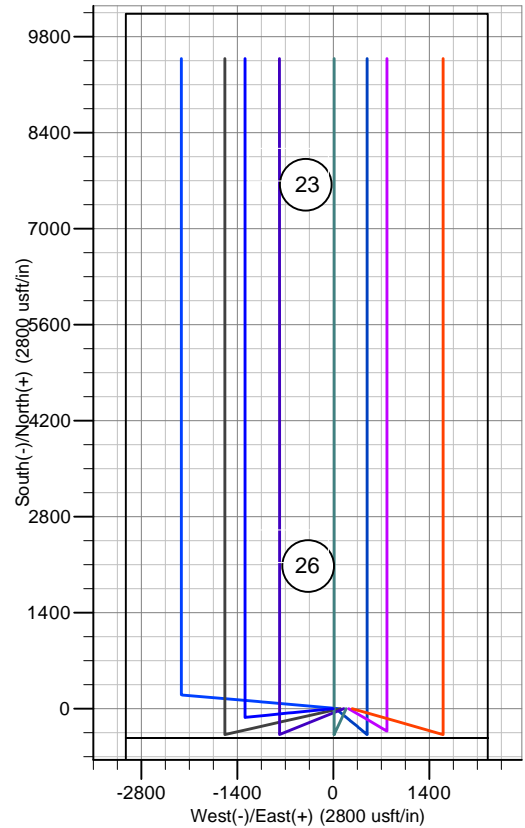
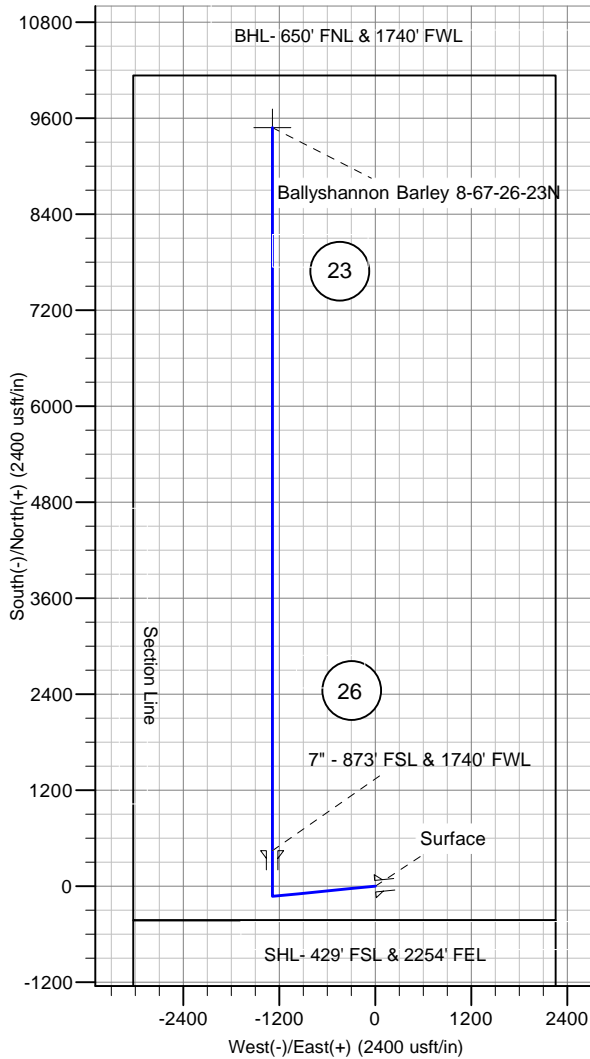
Reference Details

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Latitude: 40° 37' 35.306 N
 Longitude: 104° 51' 31.223 W
 Grid Convergence: 0.41° West
 Ground Elevation: 5189.0
 KB Elevation: Well @ 5215.0usft

SECTION DETAILS

CASING DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	TVD	MD	Name
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	1500.0	1500.0	Surface
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	7130.0	7671.1	Intermediate
2333.9	0.00	0.00	2333.9	0.0	0.0	0.00	0.00	0.0			
3000.5	20.00	264.27	2987.1	-11.5	-114.6	3.00	264.27	4.0			
6104.4	20.00	264.27	5903.8	-117.5	-1170.9	0.00	0.00	40.9			
6771.1	0.00	0.00	6557.0	-129.0	-1285.5	3.00	180.00	45.0			
7671.1	90.00	0.00	7130.0	444.0	-1285.5	10.00	0.00	612.7			
7673.6	90.00	360.00	7130.0	446.4	-1285.5	0.13	-94.82	615.2			
16708.1	90.00	360.00	7130.0	9481.0	-1286.0	0.00	0.00	9567.8			



Enerplus Resources (USA) Corporation

Weld County, CO

SEC 26, T8N-R67W

Ballyshannon Barley 8-67-26-23N

Hz

Plan: Plan 1

Standard Planning Report

10 February, 2017

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ballyshannon Barley 8-67-26-23N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5215.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5215.0usft
Site:	SEC 26, T8N-R67W	North Reference:	True
Well:	Ballyshannon Barley 8-67-26-23N	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 26, T8N-R67W				
Site Position:		Northing:	1,471,710.17 usft	Latitude:	40° 37' 35.306 N
From:	Lat/Long	Easting:	3,178,017.95 usft	Longitude:	104° 51' 31.223 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Ballyshannon Barley 8-67-26-23N					
Well Position	+N/-S	0.0 usft	Northing:	1,471,710.17 usft	Latitude:	40° 37' 35.306 N
	+E/-W	0.0 usft	Easting:	3,178,017.95 usft	Longitude:	104° 51' 31.223 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	5,189.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/9/2017	8.17	67.02	52,641

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	352.28

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	
2,333.9	0.00	0.00	2,333.9	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.5	20.00	264.27	2,987.1	-11.5	-114.6	3.00	3.00	0.00	264.27	
6,104.4	20.00	264.27	5,903.8	-117.5	-1,170.9	0.00	0.00	0.00	0.00	
6,771.1	0.00	0.00	6,557.0	-129.0	-1,285.5	3.00	-3.00	0.00	180.00	
7,671.1	90.00	0.00	7,130.0	444.0	-1,285.5	10.00	10.00	0.00	0.00	
7,673.6	90.00	360.00	7,130.0	446.4	-1,285.5	0.13	-0.01	-0.13	-94.82	
16,708.1	90.00	360.00	7,130.0	9,481.0	-1,286.0	0.00	0.00	0.00	0.00	Ballyshannon Barley t

Planning Report

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Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5215.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5215.0usft
Site:	SEC 26, T8N-R67W	North Reference:	True
Well:	Ballyshannon Barley 8-67-26-23N	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									
1,600.0	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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,333.9	0.00	0.00	2,333.9	0.0	0.0	0.0	0.00	0.00	0.00
Begin 3°/100' Nudge									
2,400.0	1.98	264.27	2,400.0	-0.1	-1.1	0.0	3.00	3.00	0.00
2,500.0	4.98	264.27	2,499.8	-0.7	-7.2	0.3	3.00	3.00	0.00
2,600.0	7.98	264.27	2,599.1	-1.8	-18.4	0.6	3.00	3.00	0.00
2,700.0	10.98	264.27	2,697.8	-3.5	-34.8	1.2	3.00	3.00	0.00
2,800.0	13.98	264.27	2,795.4	-5.7	-56.3	2.0	3.00	3.00	0.00
2,900.0	16.98	264.27	2,891.7	-8.3	-82.9	2.9	3.00	3.00	0.00
3,000.0	19.98	264.27	2,986.6	-11.5	-114.4	4.0	3.00	3.00	0.00
3,000.5	20.00	264.27	2,987.1	-11.5	-114.6	4.0	3.00	3.00	0.00
3,100.0	20.00	264.27	3,080.5	-14.9	-148.5	5.2	0.00	0.00	0.00
3,200.0	20.00	264.27	3,174.5	-18.3	-182.5	6.4	0.00	0.00	0.00
3,300.0	20.00	264.27	3,268.5	-21.7	-216.5	7.6	0.00	0.00	0.00
3,400.0	20.00	264.27	3,362.5	-25.1	-250.5	8.8	0.00	0.00	0.00
3,500.0	20.00	264.27	3,456.4	-28.6	-284.6	10.0	0.00	0.00	0.00
3,600.0	20.00	264.27	3,550.4	-32.0	-318.6	11.1	0.00	0.00	0.00
3,700.0	20.00	264.27	3,644.4	-35.4	-352.6	12.3	0.00	0.00	0.00
3,800.0	20.00	264.27	3,738.3	-38.8	-386.7	13.5	0.00	0.00	0.00
3,900.0	20.00	264.27	3,832.3	-42.2	-420.7	14.7	0.00	0.00	0.00
4,000.0	20.00	264.27	3,926.3	-45.6	-454.7	15.9	0.00	0.00	0.00
4,100.0	20.00	264.27	4,020.2	-49.0	-488.8	17.1	0.00	0.00	0.00
4,200.0	20.00	264.27	4,114.2	-52.5	-522.8	18.3	0.00	0.00	0.00
4,300.0	20.00	264.27	4,208.2	-55.9	-556.8	19.5	0.00	0.00	0.00
4,400.0	20.00	264.27	4,302.1	-59.3	-590.9	20.7	0.00	0.00	0.00
4,500.0	20.00	264.27	4,396.1	-62.7	-624.9	21.9	0.00	0.00	0.00
4,600.0	20.00	264.27	4,490.1	-66.1	-658.9	23.0	0.00	0.00	0.00
4,700.0	20.00	264.27	4,584.1	-69.5	-693.0	24.2	0.00	0.00	0.00
4,800.0	20.00	264.27	4,678.0	-73.0	-727.0	25.4	0.00	0.00	0.00
4,900.0	20.00	264.27	4,772.0	-76.4	-761.0	26.6	0.00	0.00	0.00

Planning Report

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Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5215.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5215.0usft
Site:	SEC 26, T8N-R67W	North Reference:	True
Well:	Ballyshannon Barley 8-67-26-23N	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)	
5,000.0	20.00	264.27	4,866.0	-79.8	-795.0	27.8	0.00	0.00	0.00	
5,100.0	20.00	264.27	4,959.9	-83.2	-829.1	29.0	0.00	0.00	0.00	
5,200.0	20.00	264.27	5,053.9	-86.6	-863.1	30.2	0.00	0.00	0.00	
5,300.0	20.00	264.27	5,147.9	-90.0	-897.1	31.4	0.00	0.00	0.00	
5,400.0	20.00	264.27	5,241.8	-93.4	-931.2	32.6	0.00	0.00	0.00	
5,500.0	20.00	264.27	5,335.8	-96.9	-965.2	33.8	0.00	0.00	0.00	
5,600.0	20.00	264.27	5,429.8	-100.3	-999.2	34.9	0.00	0.00	0.00	
5,700.0	20.00	264.27	5,523.7	-103.7	-1,033.3	36.1	0.00	0.00	0.00	
5,800.0	20.00	264.27	5,617.7	-107.1	-1,067.3	37.3	0.00	0.00	0.00	
5,900.0	20.00	264.27	5,711.7	-110.5	-1,101.3	38.5	0.00	0.00	0.00	
6,000.0	20.00	264.27	5,805.7	-113.9	-1,135.4	39.7	0.00	0.00	0.00	
6,100.0	20.00	264.27	5,899.6	-117.3	-1,169.4	40.9	0.00	0.00	0.00	
6,104.4	20.00	264.27	5,903.8	-117.5	-1,170.9	40.9	0.00	0.00	0.00	
6,200.0	17.13	264.27	5,994.4	-120.5	-1,201.2	42.0	3.00	-3.00	0.00	
6,300.0	14.13	264.27	6,090.7	-123.2	-1,228.0	42.9	3.00	-3.00	0.00	
6,400.0	11.13	264.27	6,188.2	-125.4	-1,249.7	43.7	3.00	-3.00	0.00	
6,500.0	8.13	264.27	6,286.8	-127.1	-1,266.4	44.3	3.00	-3.00	0.00	
6,600.0	5.13	264.27	6,386.1	-128.2	-1,277.9	44.7	3.00	-3.00	0.00	
6,700.0	2.13	264.27	6,485.9	-128.9	-1,284.2	44.9	3.00	-3.00	0.00	
6,771.1	0.00	0.00	6,557.0	-129.0	-1,285.5	45.0	3.00	-3.00	134.64	
KOP - Start 10°/100' Build										
6,800.0	2.89	0.00	6,585.9	-128.3	-1,285.5	45.7	10.00	10.00	0.00	
6,900.0	12.89	0.00	6,684.8	-114.6	-1,285.5	59.3	10.00	10.00	0.00	
7,000.0	22.89	0.00	6,779.9	-83.9	-1,285.5	89.7	10.00	10.00	0.00	
7,100.0	32.89	0.00	6,868.1	-37.2	-1,285.5	136.0	10.00	10.00	0.00	
7,200.0	42.89	0.00	6,947.0	24.2	-1,285.5	196.7	10.00	10.00	0.00	
7,300.0	52.89	0.00	7,013.9	98.3	-1,285.5	270.2	10.00	10.00	0.00	
7,400.0	62.89	0.00	7,067.0	182.9	-1,285.5	354.0	10.00	10.00	0.00	
7,500.0	72.89	0.00	7,104.6	275.4	-1,285.5	445.7	10.00	10.00	0.00	
7,600.0	82.89	0.00	7,125.6	373.0	-1,285.5	542.4	10.00	10.00	0.00	
7,671.1	90.00	0.00	7,130.0	444.0	-1,285.5	612.7	10.00	10.00	0.00	
7" - 873' FSL & 1740' FWL - Intermediate										
7,673.6	90.00	360.00	7,130.0	446.4	-1,285.5	615.2	0.13	-0.01	-0.13	
7,700.0	90.00	360.00	7,130.0	472.9	-1,285.5	641.3	0.00	0.00	0.00	
7,800.0	90.00	360.00	7,130.0	572.9	-1,285.5	740.4	0.00	0.00	0.00	
7,900.0	90.00	360.00	7,130.0	672.9	-1,285.5	839.5	0.00	0.00	0.00	
8,000.0	90.00	360.00	7,130.0	772.9	-1,285.5	938.6	0.00	0.00	0.00	
8,100.0	90.00	360.00	7,130.0	872.9	-1,285.5	1,037.7	0.00	0.00	0.00	
8,200.0	90.00	360.00	7,130.0	972.9	-1,285.5	1,136.8	0.00	0.00	0.00	
8,300.0	90.00	360.00	7,130.0	1,072.9	-1,285.5	1,235.9	0.00	0.00	0.00	
8,400.0	90.00	360.00	7,130.0	1,172.9	-1,285.5	1,335.0	0.00	0.00	0.00	
8,500.0	90.00	360.00	7,130.0	1,272.9	-1,285.5	1,434.1	0.00	0.00	0.00	
8,600.0	90.00	360.00	7,130.0	1,372.9	-1,285.6	1,533.2	0.00	0.00	0.00	
8,700.0	90.00	360.00	7,130.0	1,472.9	-1,285.6	1,632.3	0.00	0.00	0.00	
8,800.0	90.00	360.00	7,130.0	1,572.9	-1,285.6	1,731.4	0.00	0.00	0.00	
8,900.0	90.00	360.00	7,130.0	1,672.9	-1,285.6	1,830.5	0.00	0.00	0.00	
9,000.0	90.00	360.00	7,130.0	1,772.9	-1,285.6	1,929.6	0.00	0.00	0.00	
9,100.0	90.00	360.00	7,130.0	1,872.9	-1,285.6	2,028.7	0.00	0.00	0.00	
9,200.0	90.00	360.00	7,130.0	1,972.9	-1,285.6	2,127.7	0.00	0.00	0.00	
9,300.0	90.00	360.00	7,130.0	2,072.9	-1,285.6	2,226.8	0.00	0.00	0.00	
9,400.0	90.00	360.00	7,130.0	2,172.9	-1,285.6	2,325.9	0.00	0.00	0.00	
9,500.0	90.00	360.00	7,130.0	2,272.9	-1,285.6	2,425.0	0.00	0.00	0.00	
9,600.0	90.00	360.00	7,130.0	2,372.9	-1,285.6	2,524.1	0.00	0.00	0.00	
9,700.0	90.00	360.00	7,130.0	2,472.9	-1,285.6	2,623.2	0.00	0.00	0.00	

Planning Report

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Project:	Weld County, CO	MD Reference:	Well @ 5215.0usft
Site:	SEC 26, T8N-R67W	North Reference:	True
Well:	Ballyshannon Barley 8-67-26-23N	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)	
9,800.0	90.00	360.00	7,130.0	2,572.9	-1,285.6	2,722.3	0.00	0.00	0.00	
9,900.0	90.00	360.00	7,130.0	2,672.9	-1,285.6	2,821.4	0.00	0.00	0.00	
10,000.0	90.00	360.00	7,130.0	2,772.9	-1,285.6	2,920.5	0.00	0.00	0.00	
10,100.0	90.00	360.00	7,130.0	2,872.9	-1,285.6	3,019.6	0.00	0.00	0.00	
10,200.0	90.00	360.00	7,130.0	2,972.9	-1,285.6	3,118.7	0.00	0.00	0.00	
10,300.0	90.00	360.00	7,130.0	3,072.9	-1,285.6	3,217.8	0.00	0.00	0.00	
10,400.0	90.00	360.00	7,130.0	3,172.9	-1,285.7	3,316.9	0.00	0.00	0.00	
10,500.0	90.00	360.00	7,130.0	3,272.9	-1,285.7	3,416.0	0.00	0.00	0.00	
10,600.0	90.00	360.00	7,130.0	3,372.9	-1,285.7	3,515.1	0.00	0.00	0.00	
10,700.0	90.00	360.00	7,130.0	3,472.9	-1,285.7	3,614.1	0.00	0.00	0.00	
10,800.0	90.00	360.00	7,130.0	3,572.9	-1,285.7	3,713.2	0.00	0.00	0.00	
10,900.0	90.00	360.00	7,130.0	3,672.9	-1,285.7	3,812.3	0.00	0.00	0.00	
11,000.0	90.00	360.00	7,130.0	3,772.9	-1,285.7	3,911.4	0.00	0.00	0.00	
11,100.0	90.00	360.00	7,130.0	3,872.9	-1,285.7	4,010.5	0.00	0.00	0.00	
11,200.0	90.00	360.00	7,130.0	3,972.9	-1,285.7	4,109.6	0.00	0.00	0.00	
11,300.0	90.00	360.00	7,130.0	4,072.9	-1,285.7	4,208.7	0.00	0.00	0.00	
11,400.0	90.00	360.00	7,130.0	4,172.9	-1,285.7	4,307.8	0.00	0.00	0.00	
11,500.0	90.00	360.00	7,130.0	4,272.9	-1,285.7	4,406.9	0.00	0.00	0.00	
11,600.0	90.00	360.00	7,130.0	4,372.9	-1,285.7	4,506.0	0.00	0.00	0.00	
11,700.0	90.00	360.00	7,130.0	4,472.9	-1,285.7	4,605.1	0.00	0.00	0.00	
11,800.0	90.00	360.00	7,130.0	4,572.9	-1,285.7	4,704.2	0.00	0.00	0.00	
11,900.0	90.00	360.00	7,130.0	4,672.9	-1,285.7	4,803.3	0.00	0.00	0.00	
12,000.0	90.00	360.00	7,130.0	4,772.9	-1,285.7	4,902.4	0.00	0.00	0.00	
12,100.0	90.00	360.00	7,130.0	4,872.9	-1,285.7	5,001.5	0.00	0.00	0.00	
12,200.0	90.00	360.00	7,130.0	4,972.9	-1,285.8	5,100.5	0.00	0.00	0.00	
12,300.0	90.00	360.00	7,130.0	5,072.9	-1,285.8	5,199.6	0.00	0.00	0.00	
12,400.0	90.00	360.00	7,130.0	5,172.9	-1,285.8	5,298.7	0.00	0.00	0.00	
12,500.0	90.00	360.00	7,130.0	5,272.9	-1,285.8	5,397.8	0.00	0.00	0.00	
12,600.0	90.00	360.00	7,130.0	5,372.9	-1,285.8	5,496.9	0.00	0.00	0.00	
12,700.0	90.00	360.00	7,130.0	5,472.9	-1,285.8	5,596.0	0.00	0.00	0.00	
12,800.0	90.00	360.00	7,130.0	5,572.9	-1,285.8	5,695.1	0.00	0.00	0.00	
12,900.0	90.00	360.00	7,130.0	5,672.9	-1,285.8	5,794.2	0.00	0.00	0.00	
13,000.0	90.00	360.00	7,130.0	5,772.9	-1,285.8	5,893.3	0.00	0.00	0.00	
13,100.0	90.00	360.00	7,130.0	5,872.9	-1,285.8	5,992.4	0.00	0.00	0.00	
13,200.0	90.00	360.00	7,130.0	5,972.9	-1,285.8	6,091.5	0.00	0.00	0.00	
13,300.0	90.00	360.00	7,130.0	6,072.9	-1,285.8	6,190.6	0.00	0.00	0.00	
13,400.0	90.00	360.00	7,130.0	6,172.9	-1,285.8	6,289.7	0.00	0.00	0.00	
13,500.0	90.00	360.00	7,130.0	6,272.9	-1,285.8	6,388.8	0.00	0.00	0.00	
13,600.0	90.00	360.00	7,130.0	6,372.9	-1,285.8	6,487.9	0.00	0.00	0.00	
13,700.0	90.00	360.00	7,130.0	6,472.9	-1,285.8	6,586.9	0.00	0.00	0.00	
13,800.0	90.00	360.00	7,130.0	6,572.9	-1,285.8	6,686.0	0.00	0.00	0.00	
13,900.0	90.00	360.00	7,130.0	6,672.9	-1,285.8	6,785.1	0.00	0.00	0.00	
14,000.0	90.00	360.00	7,130.0	6,772.9	-1,285.9	6,884.2	0.00	0.00	0.00	
14,100.0	90.00	360.00	7,130.0	6,872.9	-1,285.9	6,983.3	0.00	0.00	0.00	
14,200.0	90.00	360.00	7,130.0	6,972.9	-1,285.9	7,082.4	0.00	0.00	0.00	
14,300.0	90.00	360.00	7,130.0	7,072.9	-1,285.9	7,181.5	0.00	0.00	0.00	
14,400.0	90.00	360.00	7,130.0	7,172.9	-1,285.9	7,280.6	0.00	0.00	0.00	
14,500.0	90.00	360.00	7,130.0	7,272.9	-1,285.9	7,379.7	0.00	0.00	0.00	
14,600.0	90.00	360.00	7,130.0	7,372.9	-1,285.9	7,478.8	0.00	0.00	0.00	
14,700.0	90.00	360.00	7,130.0	7,472.9	-1,285.9	7,577.9	0.00	0.00	0.00	
14,800.0	90.00	360.00	7,130.0	7,572.9	-1,285.9	7,677.0	0.00	0.00	0.00	
14,900.0	90.00	360.00	7,130.0	7,672.9	-1,285.9	7,776.1	0.00	0.00	0.00	
15,000.0	90.00	360.00	7,130.0	7,772.9	-1,285.9	7,875.2	0.00	0.00	0.00	
15,100.0	90.00	360.00	7,130.0	7,872.9	-1,285.9	7,974.3	0.00	0.00	0.00	

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ballyshannon Barley 8-67-26-23N
Company:	Enerplus Resources (USA) Corporation	TVD Reference:	Well @ 5215.0usft
Project:	Weld County, CO	MD Reference:	Well @ 5215.0usft
Site:	SEC 26, T8N-R67W	North Reference:	True
Well:	Ballyshannon Barley 8-67-26-23N	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)	
15,200.0	90.00	360.00	7,130.0	7,972.9	-1,285.9	8,073.3	0.00	0.00	0.00	
15,300.0	90.00	360.00	7,130.0	8,072.9	-1,285.9	8,172.4	0.00	0.00	0.00	
15,400.0	90.00	360.00	7,130.0	8,172.9	-1,285.9	8,271.5	0.00	0.00	0.00	
15,500.0	90.00	360.00	7,130.0	8,272.9	-1,285.9	8,370.6	0.00	0.00	0.00	
15,600.0	90.00	360.00	7,130.0	8,372.9	-1,285.9	8,469.7	0.00	0.00	0.00	
15,700.0	90.00	360.00	7,130.0	8,472.9	-1,285.9	8,568.8	0.00	0.00	0.00	
15,800.0	90.00	360.00	7,130.0	8,572.9	-1,285.9	8,667.9	0.00	0.00	0.00	
15,900.0	90.00	360.00	7,130.0	8,672.9	-1,286.0	8,767.0	0.00	0.00	0.00	
16,000.0	90.00	360.00	7,130.0	8,772.9	-1,286.0	8,866.1	0.00	0.00	0.00	
16,100.0	90.00	360.00	7,130.0	8,872.9	-1,286.0	8,965.2	0.00	0.00	0.00	
16,200.0	90.00	360.00	7,130.0	8,972.9	-1,286.0	9,064.3	0.00	0.00	0.00	
16,300.0	90.00	360.00	7,130.0	9,072.9	-1,286.0	9,163.4	0.00	0.00	0.00	
16,400.0	90.00	360.00	7,130.0	9,172.9	-1,286.0	9,262.5	0.00	0.00	0.00	
16,500.0	90.00	360.00	7,130.0	9,272.9	-1,286.0	9,361.6	0.00	0.00	0.00	
16,600.0	90.00	360.00	7,130.0	9,372.9	-1,286.0	9,460.7	0.00	0.00	0.00	
16,700.0	90.00	360.00	7,130.0	9,472.9	-1,286.0	9,559.7	0.00	0.00	0.00	
16,708.1	90.00	360.00	7,130.0	9,481.0	-1,286.0	9,567.8	0.00	0.00	0.00	
Total Depth - Ballyshannon Barley 8-67-26-23N										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Ballyshannon Barley 8-6 - hit/miss target - Shape - Point	0.00	0.00	7,130.0	9,481.0	-1,286.0	1,481,181.63	3,176,663.41	40° 39' 8.992 N	104° 51' 47.908 W	

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		
7,671.1	7,130.0	Intermediate	7	7		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	9-5/8"	
2,333.9	2,333.9	0.0	0.0	Begin 3°/100' Nudge	
6,771.1	6,557.0	-129.0	-1,285.5	KOP - Start 10°/100' Build	
7,671.1	7,130.0	444.0	-1,285.5	7" - 873' FSL & 1740' FWL	
16,708.1	7,130.0	9,481.0	-1,286.0	Total Depth	