

Enerplus Resources (USA) Corporation

**Weld County, CO
SEC 34 T8N-R66W
Lloydminster 7-66-3-10-2N**

Hz

Plan: Plan 3

Standard Planning Report

23 September, 2019

Planning Report

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Database: | EDM Server Database | Local Co-ordinate Reference: | Well Lloydminster 7-66-3-10-2N |
| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan 3 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 ° |

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|----------------------|---------------------------|------------|---------------------|-------------------|---------------|-------------------|
| Well | Lloydminster 7-66-3-10-2N | | | | | |
| Well Position | +N/-S | 312.6 usft | Northing: | 1,466,984.38 usft | Latitude: | 40° 36' 46.451 N |
| | +E/-W | 123.8 usft | Easting: | 3,206,029.92 usft | Longitude: | 104° 45' 28.454 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 0.0 usft | Ground Level: | 4,994.0 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 10/31/2019 | 7.97 | 66.96 | 52,230.64959290 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan 3 | | | |
| 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 | 192.87 |

| | | | | |
|---------------------------------|------------------------|--------------------------|---------------------|----------------|
| Plan Survey Tool Program | Date | 9/23/2019 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.0 | 17,527.6 Plan 3 (Hz) | 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 | |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,286.7 | 26.80 | 247.57 | 3,222.2 | -156.5 | -379.3 | 1.50 | 1.50 | 0.00 | 247.57 | |
| 7,615.8 | 26.80 | 247.57 | 7,086.4 | -901.3 | -2,183.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,399.2 | 90.00 | 184.21 | 7,503.0 | -1,447.1 | -2,412.3 | 10.00 | 8.07 | -8.09 | 294.13 | |
| 8,504.6 | 90.00 | 180.00 | 7,503.0 | -1,552.4 | -2,416.2 | 4.00 | 0.00 | -4.00 | -90.00 | |
| 17,528.1 | 90.00 | 180.00 | 7,503.0 | -10,575.9 | -2,416.2 | 0.00 | 0.00 | 0.00 | 0.00 | Lloydminster 7-66-3-1 |

Planning Report

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Database: | EDM Server Database | Local Co-ordinate Reference: | Well Lloydminster 7-66-3-10-2N |
| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | 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 | 247.57 | 1,600.0 | -0.5 | -1.2 | 0.8 | 1.50 | 1.50 | 0.00 |
| 1,700.0 | 3.00 | 247.57 | 1,699.9 | -2.0 | -4.8 | 3.0 | 1.50 | 1.50 | 0.00 |
| 1,800.0 | 4.50 | 247.57 | 1,799.7 | -4.5 | -10.9 | 6.8 | 1.50 | 1.50 | 0.00 |
| 1,900.0 | 6.00 | 247.57 | 1,899.3 | -8.0 | -19.3 | 12.1 | 1.50 | 1.50 | 0.00 |
| 2,000.0 | 7.50 | 247.57 | 1,998.6 | -12.5 | -30.2 | 18.9 | 1.50 | 1.50 | 0.00 |
| 2,100.0 | 9.00 | 247.57 | 2,097.5 | -17.9 | -43.5 | 27.2 | 1.50 | 1.50 | 0.00 |
| 2,200.0 | 10.50 | 247.57 | 2,196.1 | -24.4 | -59.1 | 37.0 | 1.50 | 1.50 | 0.00 |
| 2,300.0 | 12.00 | 247.57 | 2,294.2 | -31.8 | -77.2 | 48.2 | 1.50 | 1.50 | 0.00 |
| 2,400.0 | 13.50 | 247.57 | 2,391.7 | -40.3 | -97.6 | 61.0 | 1.50 | 1.50 | 0.00 |
| 2,500.0 | 15.00 | 247.57 | 2,488.6 | -49.7 | -120.3 | 75.2 | 1.50 | 1.50 | 0.00 |
| 2,600.0 | 16.50 | 247.57 | 2,584.9 | -60.0 | -145.4 | 90.9 | 1.50 | 1.50 | 0.00 |
| 2,700.0 | 18.00 | 247.57 | 2,680.4 | -71.3 | -172.8 | 108.0 | 1.50 | 1.50 | 0.00 |
| 2,800.0 | 19.50 | 247.57 | 2,775.0 | -83.6 | -202.5 | 126.6 | 1.50 | 1.50 | 0.00 |
| 2,900.0 | 21.00 | 247.57 | 2,868.9 | -96.8 | -234.5 | 146.6 | 1.50 | 1.50 | 0.00 |
| 3,000.0 | 22.50 | 247.57 | 2,961.7 | -110.9 | -268.8 | 168.0 | 1.50 | 1.50 | 0.00 |
| 3,100.0 | 24.00 | 247.57 | 3,053.6 | -126.0 | -305.2 | 190.8 | 1.50 | 1.50 | 0.00 |
| 3,200.0 | 25.50 | 247.57 | 3,144.4 | -142.0 | -343.9 | 215.0 | 1.50 | 1.50 | 0.00 |
| 3,286.7 | 26.80 | 247.57 | 3,222.3 | -156.6 | -379.3 | 237.1 | 1.50 | 1.50 | 0.00 |
| Begin 26.8° Tangent | | | | | | | | | |
| 3,300.0 | 26.80 | 247.57 | 3,234.1 | -158.8 | -384.8 | 240.6 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 26.80 | 247.57 | 3,323.4 | -176.0 | -426.5 | 266.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 26.80 | 247.57 | 3,412.6 | -193.2 | -468.2 | 292.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 26.80 | 247.57 | 3,501.9 | -210.5 | -509.8 | 318.7 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 26.80 | 247.57 | 3,591.2 | -227.7 | -551.5 | 344.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 26.80 | 247.57 | 3,680.4 | -244.9 | -593.2 | 370.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 26.80 | 247.57 | 3,769.7 | -262.1 | -634.9 | 396.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 26.80 | 247.57 | 3,858.9 | -279.3 | -676.5 | 422.9 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 26.80 | 247.57 | 3,948.2 | -296.5 | -718.2 | 449.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 26.80 | 247.57 | 4,037.5 | -313.7 | -759.9 | 475.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 26.80 | 247.57 | 4,126.7 | -330.9 | -801.6 | 501.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 26.80 | 247.57 | 4,216.0 | -348.1 | -843.3 | 527.1 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 26.80 | 247.57 | 4,305.2 | -365.3 | -884.9 | 553.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 26.80 | 247.57 | 4,394.5 | -382.5 | -926.6 | 579.3 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 26.80 | 247.57 | 4,483.7 | -399.7 | -968.3 | 605.3 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 26.80 | 247.57 | 4,573.0 | -416.9 | -1,010.0 | 631.4 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 26.80 | 247.57 | 4,662.3 | -434.1 | -1,051.6 | 657.4 | 0.00 | 0.00 | 0.00 |

Planning Report

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|------------------|--------------------------------------|-------------------------------------|--------------------------------|
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| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | 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 | 26.80 | 247.57 | 4,751.5 | -451.3 | -1,093.3 | 683.5 | 0.00 | 0.00 | 0.00 | |
| 5,100.0 | 26.80 | 247.57 | 4,840.8 | -468.5 | -1,135.0 | 709.5 | 0.00 | 0.00 | 0.00 | |
| 5,200.0 | 26.80 | 247.57 | 4,930.0 | -485.7 | -1,176.7 | 735.6 | 0.00 | 0.00 | 0.00 | |
| 5,300.0 | 26.80 | 247.57 | 5,019.3 | -502.9 | -1,218.3 | 761.6 | 0.00 | 0.00 | 0.00 | |
| 5,400.0 | 26.80 | 247.57 | 5,108.6 | -520.1 | -1,260.0 | 787.7 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 26.80 | 247.57 | 5,197.8 | -537.3 | -1,301.7 | 813.7 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 26.80 | 247.57 | 5,287.1 | -554.5 | -1,343.4 | 839.8 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 26.80 | 247.57 | 5,376.3 | -571.7 | -1,385.0 | 865.8 | 0.00 | 0.00 | 0.00 | |
| 5,800.0 | 26.80 | 247.57 | 5,465.6 | -588.9 | -1,426.7 | 891.9 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 26.80 | 247.57 | 5,554.8 | -606.1 | -1,468.4 | 918.0 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 26.80 | 247.57 | 5,644.1 | -623.3 | -1,510.1 | 944.0 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 26.80 | 247.57 | 5,733.4 | -640.5 | -1,551.8 | 970.1 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 26.80 | 247.57 | 5,822.6 | -657.7 | -1,593.4 | 996.1 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 26.80 | 247.57 | 5,911.9 | -674.9 | -1,635.1 | 1,022.2 | 0.00 | 0.00 | 0.00 | |
| 6,400.0 | 26.80 | 247.57 | 6,001.1 | -692.1 | -1,676.8 | 1,048.2 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 26.80 | 247.57 | 6,090.4 | -709.4 | -1,718.5 | 1,074.3 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 26.80 | 247.57 | 6,179.7 | -726.6 | -1,760.1 | 1,100.3 | 0.00 | 0.00 | 0.00 | |
| 6,700.0 | 26.80 | 247.57 | 6,268.9 | -743.8 | -1,801.8 | 1,126.4 | 0.00 | 0.00 | 0.00 | |
| 6,800.0 | 26.80 | 247.57 | 6,358.2 | -761.0 | -1,843.5 | 1,152.4 | 0.00 | 0.00 | 0.00 | |
| 6,900.0 | 26.80 | 247.57 | 6,447.4 | -778.2 | -1,885.2 | 1,178.5 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 26.80 | 247.57 | 6,536.7 | -795.4 | -1,926.8 | 1,204.5 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 26.80 | 247.57 | 6,626.0 | -812.6 | -1,968.5 | 1,230.6 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 26.80 | 247.57 | 6,715.2 | -829.8 | -2,010.2 | 1,256.7 | 0.00 | 0.00 | 0.00 | |
| 7,300.0 | 26.80 | 247.57 | 6,804.5 | -847.0 | -2,051.9 | 1,282.7 | 0.00 | 0.00 | 0.00 | |
| 7,400.0 | 26.80 | 247.57 | 6,893.7 | -864.2 | -2,093.6 | 1,308.8 | 0.00 | 0.00 | 0.00 | |
| 7,500.0 | 26.80 | 247.57 | 6,983.0 | -881.4 | -2,135.2 | 1,334.8 | 0.00 | 0.00 | 0.00 | |
| 7,600.0 | 26.80 | 247.57 | 7,072.2 | -898.6 | -2,176.9 | 1,360.9 | 0.00 | 0.00 | 0.00 | |
| 7,615.8 | 26.80 | 247.57 | 7,086.3 | -901.3 | -2,183.5 | 1,365.0 | 0.00 | 0.00 | 0.00 | |
| KOP - Start 10°/100' Build | | | | | | | | | | |
| 7,615.8 | 26.80 | 247.57 | 7,086.4 | -901.3 | -2,183.5 | 1,365.0 | 0.00 | 0.00 | 0.00 | |
| 7,700.0 | 31.13 | 232.60 | 7,160.1 | -921.8 | -2,218.4 | 1,392.7 | 10.00 | 5.14 | -17.79 | |
| 7,800.0 | 37.94 | 219.61 | 7,242.5 | -961.3 | -2,258.6 | 1,440.2 | 10.00 | 6.81 | -12.99 | |
| 7,900.0 | 45.78 | 210.27 | 7,317.0 | -1,016.1 | -2,296.4 | 1,502.0 | 10.00 | 7.85 | -9.33 | |
| 8,000.0 | 54.21 | 203.21 | 7,381.3 | -1,084.5 | -2,330.5 | 1,576.3 | 10.00 | 8.42 | -7.06 | |
| 8,100.0 | 62.96 | 197.54 | 7,433.4 | -1,164.4 | -2,360.0 | 1,660.8 | 10.00 | 8.75 | -5.68 | |
| 8,200.0 | 71.91 | 192.70 | 7,471.8 | -1,253.5 | -2,383.9 | 1,752.9 | 10.00 | 8.95 | -4.84 | |
| 8,300.0 | 80.97 | 188.33 | 7,495.2 | -1,348.9 | -2,401.6 | 1,849.9 | 10.00 | 9.06 | -4.37 | |
| 8,399.2 | 90.00 | 184.21 | 7,503.0 | -1,447.1 | -2,412.3 | 1,948.0 | 10.00 | 9.11 | -4.15 | |
| 7" - 891' FNL & 1929' FWL - Intermediate | | | | | | | | | | |
| 8,400.0 | 90.00 | 184.18 | 7,503.0 | -1,447.9 | -2,412.4 | 1,948.8 | 4.03 | 0.00 | -4.03 | |
| 8,500.0 | 90.00 | 180.18 | 7,503.0 | -1,547.8 | -2,416.2 | 2,047.1 | 4.00 | 0.00 | -4.00 | |
| 8,504.6 | 90.00 | 180.00 | 7,503.0 | -1,552.4 | -2,416.2 | 2,051.5 | 4.00 | 0.00 | -4.00 | |
| 8,600.0 | 90.00 | 180.00 | 7,503.0 | -1,647.8 | -2,416.2 | 2,144.6 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 180.00 | 7,503.0 | -1,747.8 | -2,416.2 | 2,242.1 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 180.00 | 7,503.0 | -1,847.8 | -2,416.2 | 2,339.5 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 180.00 | 7,503.0 | -1,947.8 | -2,416.2 | 2,437.0 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 180.00 | 7,503.0 | -2,047.8 | -2,416.2 | 2,534.5 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 180.00 | 7,503.0 | -2,147.8 | -2,416.2 | 2,632.0 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 180.00 | 7,503.0 | -2,247.8 | -2,416.2 | 2,729.5 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 180.00 | 7,503.0 | -2,347.8 | -2,416.2 | 2,827.0 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 180.00 | 7,503.0 | -2,447.8 | -2,416.2 | 2,924.5 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 180.00 | 7,503.0 | -2,547.8 | -2,416.2 | 3,022.0 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 180.00 | 7,503.0 | -2,647.8 | -2,416.2 | 3,119.4 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 180.00 | 7,503.0 | -2,747.8 | -2,416.2 | 3,216.9 | 0.00 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Database: | EDM Server Database | Local Co-ordinate Reference: | Well Lloydminster 7-66-3-10-2N |
| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | 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) |
| 9,800.0 | 90.00 | 180.00 | 7,503.0 | -2,847.8 | -2,416.2 | 3,314.4 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 180.00 | 7,503.0 | -2,947.8 | -2,416.2 | 3,411.9 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.00 | 7,503.0 | -3,047.8 | -2,416.2 | 3,509.4 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 180.00 | 7,503.0 | -3,147.8 | -2,416.2 | 3,606.9 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.00 | 7,503.0 | -3,247.8 | -2,416.2 | 3,704.4 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 180.00 | 7,503.0 | -3,347.8 | -2,416.2 | 3,801.9 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 180.00 | 7,503.0 | -3,447.8 | -2,416.2 | 3,899.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 180.00 | 7,503.0 | -3,547.8 | -2,416.2 | 3,996.8 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 180.00 | 7,503.0 | -3,647.8 | -2,416.2 | 4,094.3 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 180.00 | 7,503.0 | -3,747.8 | -2,416.2 | 4,191.8 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 180.00 | 7,503.0 | -3,847.8 | -2,416.2 | 4,289.3 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 180.00 | 7,503.0 | -3,947.8 | -2,416.2 | 4,386.8 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 180.00 | 7,503.0 | -4,047.8 | -2,416.2 | 4,484.3 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 180.00 | 7,503.0 | -4,147.8 | -2,416.2 | 4,581.8 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 180.00 | 7,503.0 | -4,247.8 | -2,416.2 | 4,679.3 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 180.00 | 7,503.0 | -4,347.8 | -2,416.2 | 4,776.7 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 180.00 | 7,503.0 | -4,447.8 | -2,416.2 | 4,874.2 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 180.00 | 7,503.0 | -4,547.8 | -2,416.2 | 4,971.7 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 180.00 | 7,503.0 | -4,647.8 | -2,416.2 | 5,069.2 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 180.00 | 7,503.0 | -4,747.8 | -2,416.2 | 5,166.7 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 180.00 | 7,503.0 | -4,847.8 | -2,416.2 | 5,264.2 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 180.00 | 7,503.0 | -4,947.8 | -2,416.2 | 5,361.7 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 180.00 | 7,503.0 | -5,047.8 | -2,416.2 | 5,459.2 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 180.00 | 7,503.0 | -5,147.8 | -2,416.2 | 5,556.6 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 180.00 | 7,503.0 | -5,247.8 | -2,416.2 | 5,654.1 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 180.00 | 7,503.0 | -5,347.8 | -2,416.2 | 5,751.6 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 180.00 | 7,503.0 | -5,447.8 | -2,416.2 | 5,849.1 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 180.00 | 7,503.0 | -5,547.8 | -2,416.2 | 5,946.6 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 180.00 | 7,503.0 | -5,647.8 | -2,416.2 | 6,044.1 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 180.00 | 7,503.0 | -5,747.8 | -2,416.2 | 6,141.6 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 180.00 | 7,503.0 | -5,847.8 | -2,416.2 | 6,239.1 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 180.00 | 7,503.0 | -5,947.8 | -2,416.2 | 6,336.6 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 180.00 | 7,503.0 | -6,047.8 | -2,416.2 | 6,434.0 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 180.00 | 7,503.0 | -6,147.8 | -2,416.2 | 6,531.5 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 180.00 | 7,503.0 | -6,247.8 | -2,416.2 | 6,629.0 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 180.00 | 7,503.0 | -6,347.8 | -2,416.2 | 6,726.5 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 180.00 | 7,503.0 | -6,447.8 | -2,416.2 | 6,824.0 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 180.00 | 7,503.0 | -6,547.8 | -2,416.2 | 6,921.5 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 180.00 | 7,503.0 | -6,647.8 | -2,416.2 | 7,019.0 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 180.00 | 7,503.0 | -6,747.8 | -2,416.2 | 7,116.5 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 180.00 | 7,503.0 | -6,847.8 | -2,416.2 | 7,213.9 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 180.00 | 7,503.0 | -6,947.8 | -2,416.2 | 7,311.4 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 180.00 | 7,503.0 | -7,047.8 | -2,416.2 | 7,408.9 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 180.00 | 7,503.0 | -7,147.8 | -2,416.2 | 7,506.4 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 180.00 | 7,503.0 | -7,247.8 | -2,416.2 | 7,603.9 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 180.00 | 7,503.0 | -7,347.8 | -2,416.2 | 7,701.4 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 180.00 | 7,503.0 | -7,447.8 | -2,416.2 | 7,798.9 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 180.00 | 7,503.0 | -7,547.8 | -2,416.2 | 7,896.4 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 180.00 | 7,503.0 | -7,647.8 | -2,416.2 | 7,993.9 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 180.00 | 7,503.0 | -7,747.8 | -2,416.2 | 8,091.3 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 180.00 | 7,503.0 | -7,847.8 | -2,416.2 | 8,188.8 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 180.00 | 7,503.0 | -7,947.8 | -2,416.2 | 8,286.3 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 180.00 | 7,503.0 | -8,047.8 | -2,416.2 | 8,383.8 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 180.00 | 7,503.0 | -8,147.8 | -2,416.2 | 8,481.3 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Database: | EDM Server Database | Local Co-ordinate Reference: | Well Lloydminster 7-66-3-10-2N |
| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | 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) | |
| 15,200.0 | 90.00 | 180.00 | 7,503.0 | -8,247.8 | -2,416.2 | 8,578.8 | 0.00 | 0.00 | 0.00 | |
| 15,300.0 | 90.00 | 180.00 | 7,503.0 | -8,347.8 | -2,416.2 | 8,676.3 | 0.00 | 0.00 | 0.00 | |
| 15,400.0 | 90.00 | 180.00 | 7,503.0 | -8,447.8 | -2,416.2 | 8,773.8 | 0.00 | 0.00 | 0.00 | |
| 15,500.0 | 90.00 | 180.00 | 7,503.0 | -8,547.8 | -2,416.2 | 8,871.2 | 0.00 | 0.00 | 0.00 | |
| 15,600.0 | 90.00 | 180.00 | 7,503.0 | -8,647.8 | -2,416.2 | 8,968.7 | 0.00 | 0.00 | 0.00 | |
| 15,700.0 | 90.00 | 180.00 | 7,503.0 | -8,747.8 | -2,416.2 | 9,066.2 | 0.00 | 0.00 | 0.00 | |
| 15,800.0 | 90.00 | 180.00 | 7,503.0 | -8,847.8 | -2,416.2 | 9,163.7 | 0.00 | 0.00 | 0.00 | |
| 15,900.0 | 90.00 | 180.00 | 7,503.0 | -8,947.8 | -2,416.2 | 9,261.2 | 0.00 | 0.00 | 0.00 | |
| 16,000.0 | 90.00 | 180.00 | 7,503.0 | -9,047.8 | -2,416.2 | 9,358.7 | 0.00 | 0.00 | 0.00 | |
| 16,100.0 | 90.00 | 180.00 | 7,503.0 | -9,147.8 | -2,416.2 | 9,456.2 | 0.00 | 0.00 | 0.00 | |
| 16,200.0 | 90.00 | 180.00 | 7,503.0 | -9,247.8 | -2,416.2 | 9,553.7 | 0.00 | 0.00 | 0.00 | |
| 16,300.0 | 90.00 | 180.00 | 7,503.0 | -9,347.8 | -2,416.2 | 9,651.2 | 0.00 | 0.00 | 0.00 | |
| 16,400.0 | 90.00 | 180.00 | 7,503.0 | -9,447.8 | -2,416.2 | 9,748.6 | 0.00 | 0.00 | 0.00 | |
| 16,500.0 | 90.00 | 180.00 | 7,503.0 | -9,547.8 | -2,416.2 | 9,846.1 | 0.00 | 0.00 | 0.00 | |
| 16,600.0 | 90.00 | 180.00 | 7,503.0 | -9,647.8 | -2,416.2 | 9,943.6 | 0.00 | 0.00 | 0.00 | |
| 16,700.0 | 90.00 | 180.00 | 7,503.0 | -9,747.8 | -2,416.2 | 10,041.1 | 0.00 | 0.00 | 0.00 | |
| 16,800.0 | 90.00 | 180.00 | 7,503.0 | -9,847.8 | -2,416.2 | 10,138.6 | 0.00 | 0.00 | 0.00 | |
| 16,900.0 | 90.00 | 180.00 | 7,503.0 | -9,947.8 | -2,416.2 | 10,236.1 | 0.00 | 0.00 | 0.00 | |
| 17,000.0 | 90.00 | 180.00 | 7,503.0 | -10,047.8 | -2,416.2 | 10,333.6 | 0.00 | 0.00 | 0.00 | |
| 17,100.0 | 90.00 | 180.00 | 7,503.0 | -10,147.8 | -2,416.2 | 10,431.1 | 0.00 | 0.00 | 0.00 | |
| 17,200.0 | 90.00 | 180.00 | 7,503.0 | -10,247.8 | -2,416.2 | 10,528.5 | 0.00 | 0.00 | 0.00 | |
| 17,300.0 | 90.00 | 180.00 | 7,503.0 | -10,347.8 | -2,416.2 | 10,626.0 | 0.00 | 0.00 | 0.00 | |
| 17,400.0 | 90.00 | 180.00 | 7,503.0 | -10,447.8 | -2,416.2 | 10,723.5 | 0.00 | 0.00 | 0.00 | |
| 17,500.0 | 90.00 | 180.00 | 7,503.0 | -10,547.8 | -2,416.2 | 10,821.0 | 0.00 | 0.00 | 0.00 | |
| 17,528.1 | 90.00 | 180.00 | 7,503.0 | -10,575.9 | -2,416.2 | 10,848.4 | 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 | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| Lloydminster 7-66-3-10- - plan hits target center - Point | 0.00 | 0.00 | 7,503.0 | -10,575.9 | -2,416.2 | 1,456,388.60 | 3,203,702.32 | 40° 35' 1.943 N | 104° 45' 59.771 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 | | |
| 8,399.2 | 7,503.0 | Intermediate | 7 | 7 | | |

Planning Report

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------|
| Database: | EDM Server Database | Local Co-ordinate Reference: | Well Lloydminster 7-66-3-10-2N |
| Company: | Enerplus Resources (USA) Corporation | TVD Reference: | Well @ 5010.0usft |
| Project: | Weld County, CO | MD Reference: | Well @ 5010.0usft |
| Site: | SEC 34 T8N-R66W | North Reference: | True |
| Well: | Lloydminster 7-66-3-10-2N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan 3 | | |

| 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" |
| 3,286.7 | 3,222.3 | -156.6 | -379.3 | Begin 26.8° Tangent |
| 7,615.8 | 7,086.3 | -901.3 | -2,183.5 | KOP - Start 10°/100' Build |
| 8,399.2 | 7,503.0 | -1,447.1 | -2,412.3 | 7" - 891' FNL & 1929' FWL |
| 17,528.1 | 7,503.0 | -10,575.9 | -2,416.2 | End of Lateral |