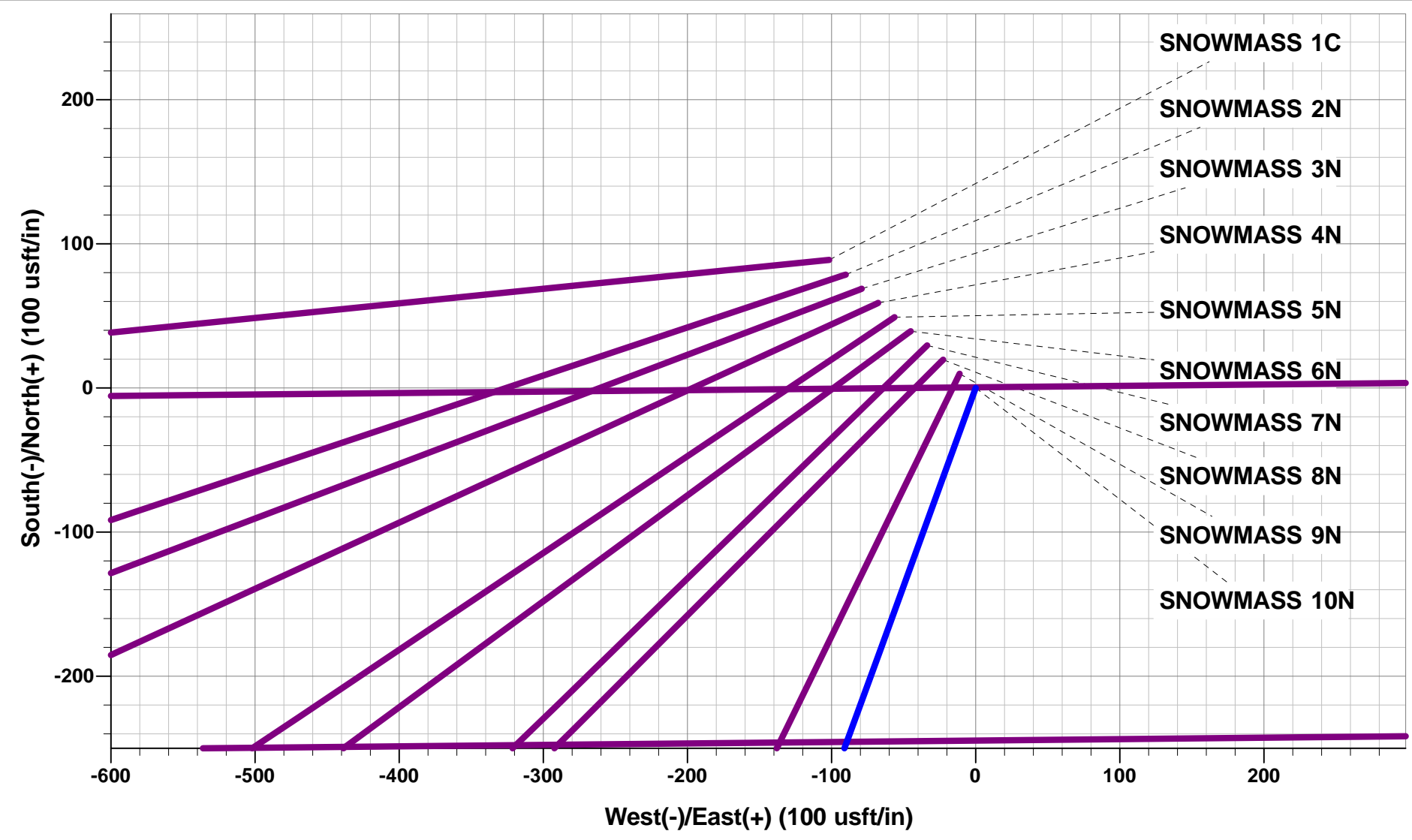




Project: WELD COUNTY, COLORADO
Site: NW NE SEC. 5 T5N R64W 6th P.M.
Well: SNOWMASS 10N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

| ANNOTATIONS | | | | | | | | | | |
|-------------|---------|-------|--------|---------|---------|---------|---------|-----------------------------------------------|--|--|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSec | Dep | Annotation | | |
| 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | SHL: 178ft FNL & 1731ft FEL of Sec 5 | | |
| 300.0 | 300.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) | | |
| 1340.2 | 1400.0 | 33.00 | 200.00 | -289.5 | -105.4 | -14.3 | 308.1 | EOB TO 33° INC | | |
| 2178.9 | 2400.0 | 33.00 | 200.00 | -801.3 | -291.7 | -39.5 | 852.8 | END OF TANGENT | | |
| 2601.3 | 2900.8 | 33.00 | 227.78 | -1022.4 | -440.1 | -115.3 | 1121.9 | EOT TO 227.78° AZ | | |
| 4993.5 | 5753.2 | 33.00 | 227.78 | -2066.3 | -1590.6 | -902.2 | 2675.4 | END OF TANGENT | | |
| 6033.7 | 6853.2 | 0.00 | 227.78 | -2273.4 | -1818.8 | -1058.3 | 2983.5 | EOD TO VERTICAL | | |
| 6083.8 | 6903.3 | 0.00 | 0.00 | -2273.4 | -1818.8 | -1058.3 | 2983.5 | KOP (8°/100ft BUR) | | |
| 6800.0 | 8034.4 | 90.49 | 89.49 | -2266.9 | -1096.5 | -370.7 | 3705.8 | HZ LP *NEW*: 2445ft FNL & 2368ft FWL of Sec 5 | | |
| 6730.0 | 16156.5 | 90.50 | 89.49 | -2194.3 | 7024.9 | 7359.7 | 11827.6 | BHL: 2445ft FNL & 0ft FEL of Sec 4 | | |

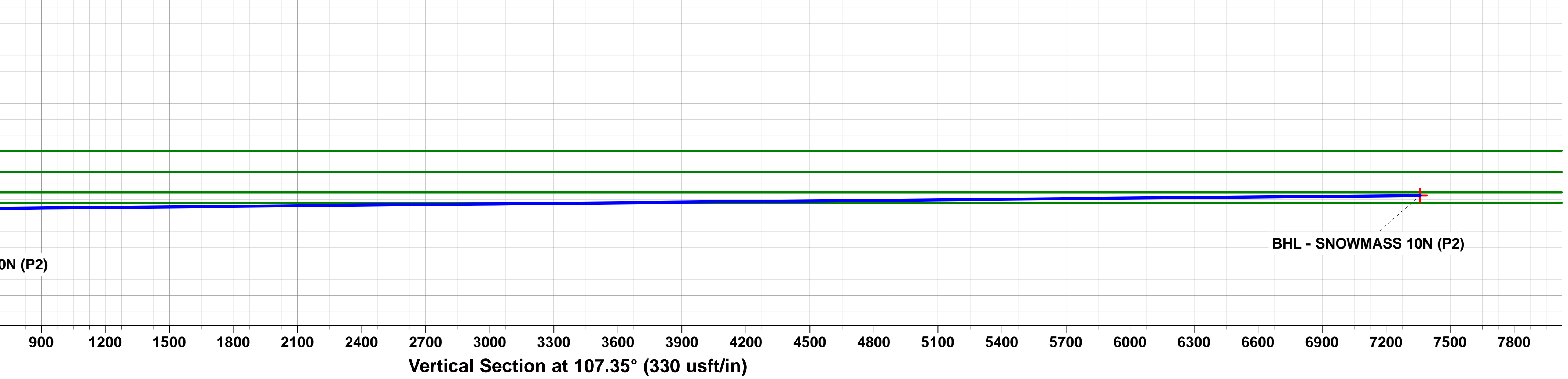
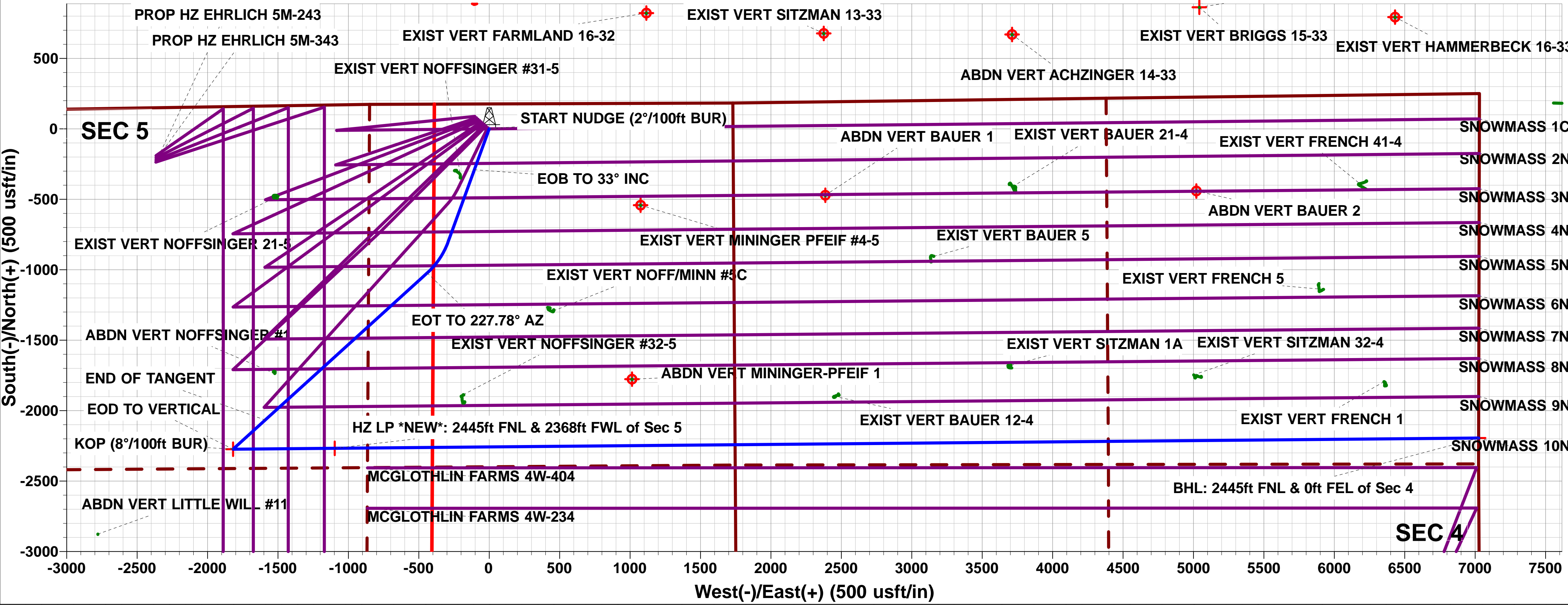
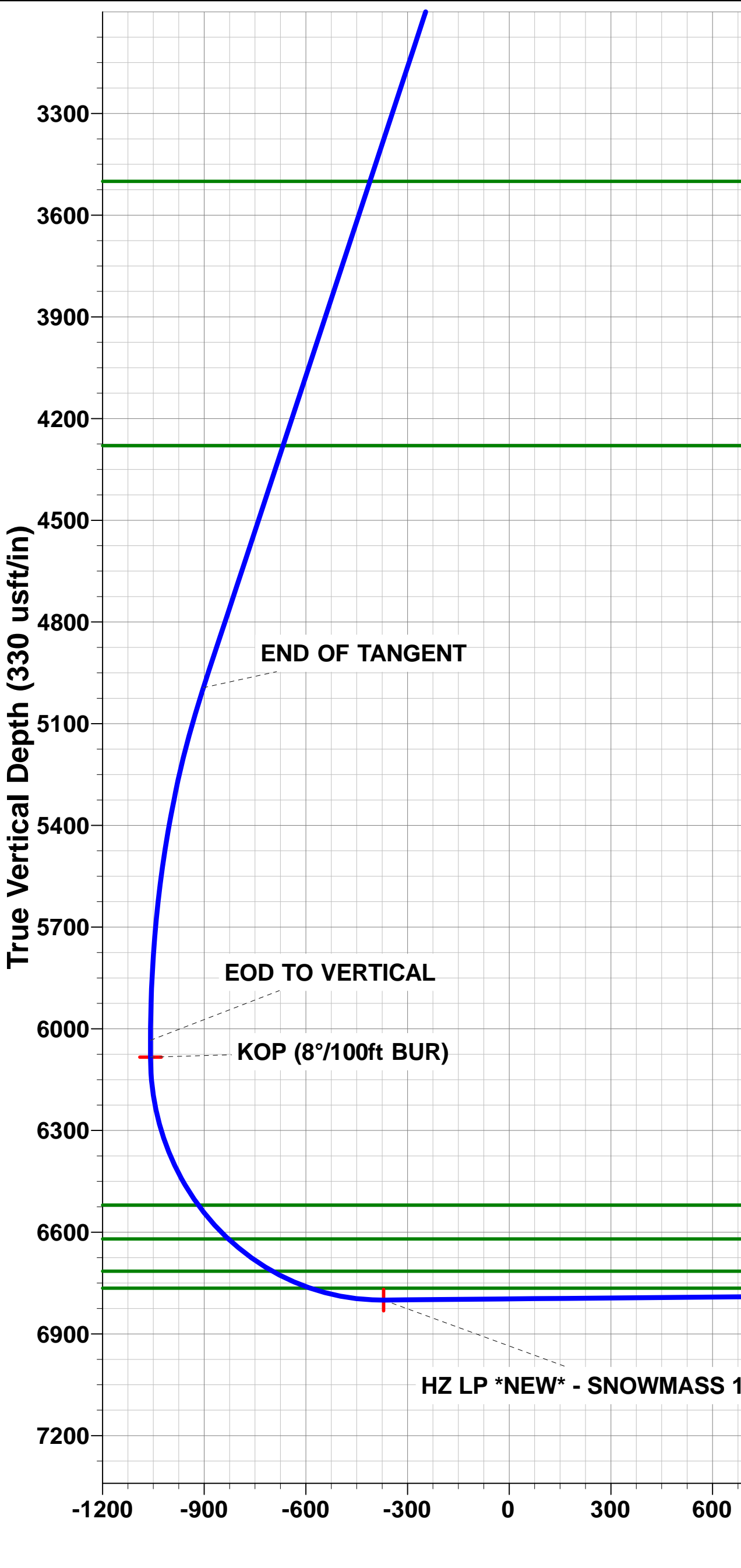
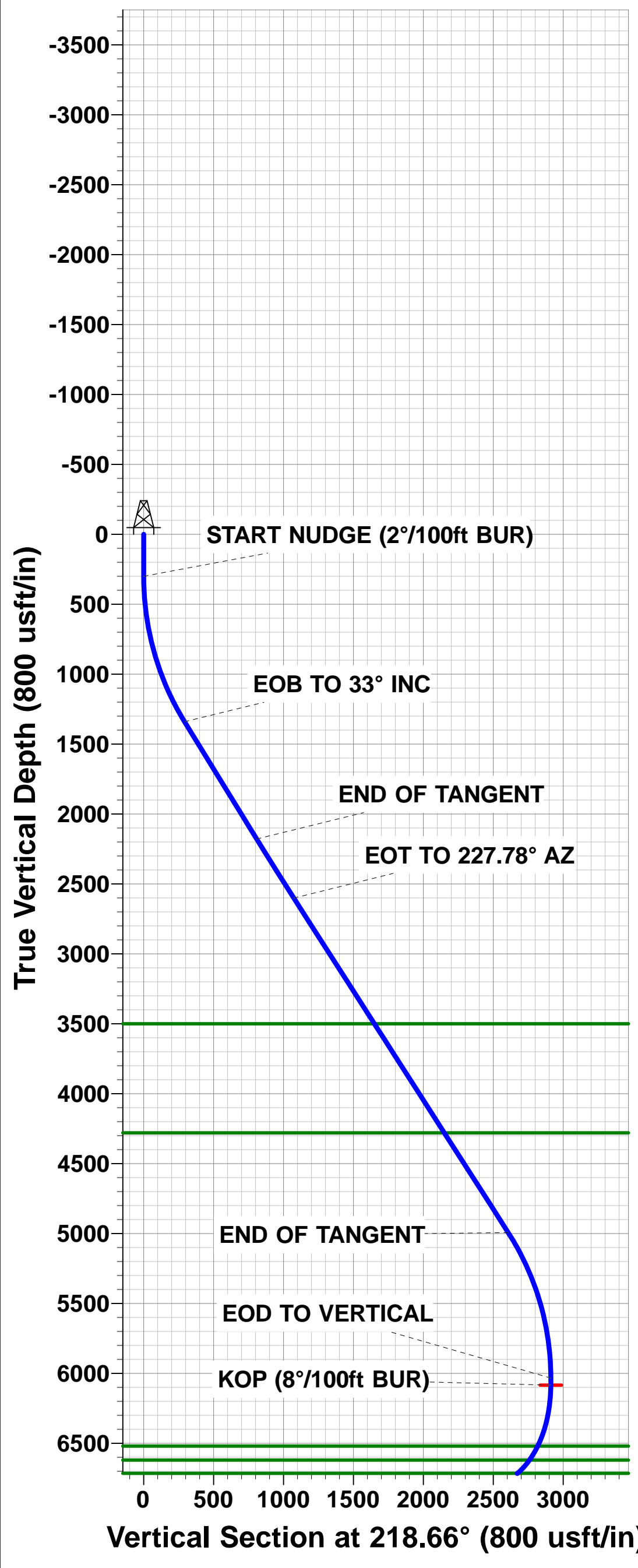
| WELLBORE TARGET DETAILS (LAT/LONG) | | | | | |
|------------------------------------|--------|---------|---------|-----------|-------------|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
| BHL - SNOWMASS 10N (P2) | 6730.0 | -2194.3 | 7024.9 | 40.428770 | -104.545768 |
| HZ LP *NEW* - SNOWMASS 10N (P2) | 6800.0 | -2267.0 | -1096.5 | 40.428573 | -104.574940 |
| KOP - SNOWMASS 10N (P2) | 6083.8 | -2273.4 | -1818.8 | 40.428556 | -104.577534 |



PROPOSED LOCAL COORDINATES:
SHL: 178ft FNL & 1731ft FEL of Sec 5
HZ LP *NEW*: 2445ft FNL & 2368ft FWL of Sec 5
BHL: 2445ft FNL & 0ft FEL of Sec 4

Azimuths to True North
Magnetic North: 8.16°

Magnetic Field
Strength: 52480.6snT
Dip Angle: 66.92°
Date: 13/01/2017
Model: IGRF2015



PDC ENERGY

**WELD COUNTY, COLORADO
NW NE SEC. 5 T5N R64W 6th P.M.
SNOWMASS 10N**

**ORIGINAL WELLBORE
PROPOSAL #2**

Anticollision Report

08 March, 2017



Anticollision Report



| | | | |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------------|
| Company: | PDC ENERGY | Local Co-ordinate Reference: | Well SNOWMASS 10N |
| Project: | WELD COUNTY, COLORADO | TVD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Reference Site: | NW NE SEC. 5 T5N R64W 6th P.M. | MD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Site Error: | 0.0 usft | North Reference: | True |
| Reference Well: | SNOWMASS 10N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | EDM 5000.1 Single User Db |
| Reference Design: | PROPOSAL #2 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| Reference | PROPOSAL #2 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD + Stations Interval 100.0usft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 10,000.0 us | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | Casing Method: | Not applied |

| | | | | |
|----------------------------|------------------------|---------------------------------|------------------|--------------------|
| Survey Tool Program | Date 08/03/2017 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 16,156.5 | PROPOSAL #2 (ORIGINAL WELLBORE) | MWD | MWD - Standard |

| Summary | | | | | | |
|----------------------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|------------|
| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| NW NE SEC. 5 T5N R64W 6th P.M. | | | | | | |
| ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design | 12,869.5 | 6,738.4 | 2,894.2 | 2,611.8 | 10.250 | CC |
| ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design | 12,900.0 | 6,738.2 | 2,894.3 | 2,611.1 | 10.221 | ES |
| ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design | 13,700.0 | 6,731.3 | 3,010.9 | 2,706.1 | 9.877 | SF |
| ABDN VERT BAUER 1 - Wellbore #1 - Design #1 | 11,533.3 | 6,791.0 | 1,765.2 | 1,518.1 | 7.142 | CC |
| ABDN VERT BAUER 1 - Wellbore #1 - Design #1 | 11,600.0 | 6,790.4 | 1,766.5 | 1,517.6 | 7.097 | ES |
| ABDN VERT BAUER 1 - Wellbore #1 - Design #1 | 11,900.0 | 6,787.8 | 1,802.9 | 1,546.1 | 7.020 | SF |
| ABDN VERT BAUER 2 - Wellbore #1 - Design #1 | 14,168.2 | 6,727.2 | 1,771.6 | 1,454.0 | 5.578 | CC |
| ABDN VERT BAUER 2 - Wellbore #1 - Design #1 | 14,200.0 | 6,726.9 | 1,771.9 | 1,453.4 | 5.564 | ES |
| ABDN VERT BAUER 2 - Wellbore #1 - Design #1 | 14,400.0 | 6,725.2 | 1,786.7 | 1,462.7 | 5.516 | SF |
| EXIST HZ LUCI STATE B3-69HNL - Wellbore #1 - Wel | 16,156.5 | 17,000.0 | 2,436.9 | 1,903.4 | 4.568 | CC, ES, SF |
| EXIST VERT BAUER 21-4 - Wellbore #1 - Wellbore #1 | 12,842.6 | 6,500.0 | 1,843.6 | 1,696.6 | 12.541 | CC |
| EXIST VERT BAUER 21-4 - Wellbore #1 - Wellbore #1 | 12,900.0 | 6,500.0 | 1,844.5 | 1,696.0 | 12.416 | ES |
| EXIST VERT BAUER 21-4 - Wellbore #1 - Wellbore #1 | 13,500.0 | 6,500.0 | 1,957.3 | 1,792.5 | 11.877 | SF |
| EXIST VERT BAUER 5 - Wellbore #1 - Wellbore #1 | 12,300.1 | 6,700.0 | 1,324.9 | 1,191.3 | 9.917 | CC, ES |
| EXIST VERT BAUER 5 - Wellbore #1 - Wellbore #1 | 12,700.0 | 6,700.0 | 1,383.9 | 1,239.5 | 9.585 | SF |
| EXIST VERT BRIGGS 15-33 - Wellbore #1 - Design #1 | 14,200.7 | 6,731.9 | 3,075.2 | 2,756.7 | 9.654 | CC |
| EXIST VERT BRIGGS 15-33 - Wellbore #1 - Design #1 | 14,300.0 | 6,731.1 | 3,076.8 | 2,755.6 | 9.578 | ES |
| EXIST VERT BRIGGS 15-33 - Wellbore #1 - Design #1 | 15,000.0 | 6,725.0 | 3,177.4 | 2,837.0 | 9.334 | SF |
| EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design # | 300.0 | 289.0 | 1,386.2 | 1,380.7 | 251.222 | CC |
| EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design # | 400.0 | 389.0 | 1,388.4 | 1,380.6 | 178.919 | ES |
| EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design # | 11,400.0 | 6,760.1 | 3,269.2 | 3,025.9 | 13.435 | SF |
| EXIST VERT FRENCH 41-4 - Wellbore #1 - Wellbore #1 | 15,373.4 | 6,400.0 | 1,852.1 | 1,637.2 | 8.619 | CC |
| EXIST VERT FRENCH 41-4 - Wellbore #1 - Wellbore #1 | 15,400.0 | 6,400.0 | 1,852.3 | 1,636.7 | 8.591 | ES |
| EXIST VERT FRENCH 41-4 - Wellbore #1 - Wellbore #1 | 15,800.0 | 6,400.0 | 1,900.6 | 1,674.0 | 8.389 | SF |
| EXIST VERT FRENCH 5 - Wellbore #1 - Wellbore #1 | 15,033.0 | 6,696.7 | 1,106.7 | 898.2 | 5.308 | CC, ES |
| EXIST VERT FRENCH 5 - Wellbore #1 - Wellbore #1 | 15,200.0 | 6,695.5 | 1,119.2 | 906.1 | 5.252 | SF |
| EXIST VERT GRANADOS #4-3 - Wellbore #1 - Design # | 16,156.5 | 6,705.0 | 1,778.0 | 1,405.9 | 4.778 | CC, ES, SF |
| EXIST VERT HAMMERBECK 16-33 - Wellbore #1 - Des | 15,589.8 | 6,719.9 | 2,993.1 | 2,636.5 | 8.393 | CC |
| EXIST VERT HAMMERBECK 16-33 - Wellbore #1 - Des | 15,700.0 | 6,719.0 | 2,995.2 | 2,635.5 | 8.328 | ES |
| EXIST VERT HAMMERBECK 16-33 - Wellbore #1 - Des | 16,156.5 | 6,715.0 | 3,046.3 | 2,674.1 | 8.184 | SF |
| EXIST VERT MININGER PFEIF #4-5 - Wellbore #1 - Des | 1,038.7 | 1,003.4 | 1,195.2 | 1,172.3 | 52.178 | CC |
| EXIST VERT MININGER PFEIF #4-5 - Wellbore #1 - Des | 1,200.0 | 1,150.1 | 1,197.1 | 1,170.0 | 44.177 | ES |
| EXIST VERT MININGER PFEIF #4-5 - Wellbore #1 - Des | 10,600.0 | 6,761.0 | 1,747.7 | 1,524.9 | 7.845 | SF |
| EXIST VERT NOFFSINGER/MINN #5C - Wellbore #1 - V | 2,540.1 | 2,266.2 | 882.4 | 863.1 | 45.872 | CC, ES |
| EXIST VERT NOFFSINGER/MINN #5C - Wellbore #1 - V | 9,900.0 | 6,772.1 | 1,035.1 | 963.0 | 14.342 | SF |
| EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1 | 300.0 | 280.0 | 2,470.1 | 2,464.7 | 455.958 | CC |
| EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1 | 400.0 | 380.0 | 2,471.7 | 2,464.0 | 322.450 | ES |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



| | | | |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------------|
| Company: | PDC ENERGY | Local Co-ordinate Reference: | Well SNOWMASS 10N |
| Project: | WELD COUNTY, COLORADO | TVD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Reference Site: | NW NE SEC. 5 T5N R64W 6th P.M. | MD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Site Error: | 0.0 usft | North Reference: | True |
| Reference Well: | SNOWMASS 10N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | EDM 5000.1 Single User Db |
| Reference Design: | PROPOSAL #2 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|-----------------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-------------------------------------------|----------------------|---------------------|
| NW NE SEC. 5 T5N R64W 6th P.M. | | | | | | |
| EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1 | 12,500.0 | 6,741.6 | 3,070.0 | 2,797.6 | 11.270 | SF |
| EXIST VERT WEBSTER 15-32 - Wellbore #1 - Design # | 300.0 | 286.0 | 917.8 | 912.3 | 167.353 | CC, ES |
| EXIST VERT WEBSTER 15-32 - Wellbore #1 - Design # | 10,400.0 | 6,765.7 | 3,443.3 | 3,225.5 | 15.808 | SF |
| SNOWMASS 1C - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 135.0 | 133.9 | 125.918 | CC, ES |
| SNOWMASS 1C - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 14,760.1 | 2,267.7 | 1,812.2 | 4.979 | SF |
| SNOWMASS 2N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 119.7 | 118.6 | 111.644 | CC, ES |
| SNOWMASS 2N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 14,705.5 | 2,020.0 | 1,564.2 | 4.432 | SF |
| SNOWMASS 3N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 104.8 | 103.8 | 97.786 | CC, ES |
| SNOWMASS 3N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,279.3 | 1,770.8 | 1,301.6 | 3.774 | SF |
| SNOWMASS 4N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 89.8 | 88.7 | 83.733 | CC, ES |
| SNOWMASS 4N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,719.1 | 1,530.1 | 1,053.9 | 3.213 | SF |
| SNOWMASS 5N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 74.7 | 73.6 | 69.680 | CC, ES |
| SNOWMASS 5N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,392.0 | 1,291.0 | 821.7 | 2.751 | SF |
| SNOWMASS 6N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 59.8 | 58.8 | 55.822 | CC, ES |
| SNOWMASS 6N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,866.9 | 1,010.3 | 534.0 | 2.121 | SF |
| SNOWMASS 7N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 44.8 | 43.7 | 41.769 | CC, ES |
| SNOWMASS 7N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,547.3 | 783.3 | 315.4 | 1.674 | SF |
| SNOWMASS 8N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 29.9 | 28.9 | 27.911 | CC, ES |
| SNOWMASS 8N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,995.2 | 565.0 | 88.2 | 1.185 | Level 2, SF |
| SNOWMASS 9N - ORIGINAL WELLBORE - PROPOSA | 300.0 | 300.0 | 14.9 | 13.8 | 13.858 | CC |
| SNOWMASS 9N - ORIGINAL WELLBORE - PROPOSA | 16,156.5 | 15,688.4 | 303.7 | -151.6 | 0.667 | Level 1, ES, SF |
| NW NW SEC. 5 T5N R64W 6th P.M. | | | | | | |
| ABDN VERT LITTLE WILL #11 - Wellbore #1 - Design #1 | 6,903.3 | 6,042.8 | 1,133.1 | 957.0 | 6.435 | CC, ES, SF |
| ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore | 5,252.4 | 4,543.7 | 212.1 | 164.6 | 4.462 | CC, ES, SF |
| EHRlich 5J-223 - ORIGINAL WELLBORE - PROPOSA | 7,500.0 | 8,933.7 | 140.6 | 75.6 | 2.162 | ES, SF |
| EHRlich 5J-223 - ORIGINAL WELLBORE - PROPOSA | 7,504.5 | 8,933.7 | 140.5 | 75.8 | 2.172 | CC |
| EHRlich 5J-323 - ORIGINAL WELLBORE - PROPOSA | 7,350.0 | 8,987.2 | 361.6 | 286.6 | 4.820 | SF |
| EHRlich 5J-323 - ORIGINAL WELLBORE - PROPOSA | 7,432.7 | 8,986.2 | 347.3 | 277.8 | 4.998 | CC, ES |
| EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSA | 7,950.0 | 9,117.6 | 75.0 | 35.5 | 1.901 | ES, SF |
| EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSA | 7,952.1 | 9,117.6 | 75.0 | 35.6 | 1.902 | CC |
| EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSA | 7,723.6 | 9,081.1 | 69.0 | 20.0 | 1.407 | Level 3, CC, ES, SF |
| EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellb | 3,725.9 | 3,281.0 | 1,139.8 | 1,109.4 | 37.580 | CC, ES |
| EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellb | 4,500.0 | 3,938.9 | 1,211.5 | 1,175.6 | 33.762 | SF |
| EXIST VERT NOFFSINGER #31-5 - Wellbore #1 - Wellb | 1,492.0 | 1,395.8 | 119.7 | 111.6 | 14.615 | CC |
| EXIST VERT NOFFSINGER #31-5 - Wellbore #1 - Wellb | 1,500.0 | 1,402.5 | 119.8 | 111.6 | 14.482 | ES, SF |
| EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb | 8,950.8 | 6,766.6 | 372.1 | 320.0 | 7.145 | CC, ES |
| EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb | 9,000.0 | 6,765.5 | 375.3 | 322.4 | 7.089 | SF |
| EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore # | 6,950.0 | 6,128.4 | 832.9 | 785.3 | 17.524 | SF |
| EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore # | 7,350.0 | 6,489.7 | 809.7 | 769.3 | 20.061 | ES |
| EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore # | 7,388.7 | 6,521.1 | 809.3 | 769.8 | 20.504 | CC |
| EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1 | 7,500.0 | 6,514.9 | 2,009.0 | 1,967.4 | 48.298 | ES |
| EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1 | 7,570.8 | 6,567.2 | 2,008.4 | 1,967.6 | 49.247 | CC |
| EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1 | 16,156.5 | 6,674.2 | 8,758.8 | 8,519.2 | 36.566 | SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



| | | | |
|---------------------------|--------------------------------|-------------------------------------|------------------------------------------|
| Company: | PDC ENERGY | Local Co-ordinate Reference: | Well SNOWMASS 10N |
| Project: | WELD COUNTY, COLORADO | TVD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Reference Site: | NW NE SEC. 5 T5N R64W 6th P.M. | MD Reference: | KB-EST @ 4657.0usft (Original Well Elev) |
| Site Error: | 0.0 usft | North Reference: | True |
| Reference Well: | SNOWMASS 10N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | EDM 5000.1 Single User Db |
| Reference Design: | PROPOSAL #2 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|-----------------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------|-------------------------------------------|----------------------|---------------------|
| SE SE SEC. 4 T5N R64W 6th P.M. | | | | | | |
| ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore # | 10,237.8 | 6,762.2 | 769.5 | 689.5 | 9.612 | CC, ES |
| ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore # | 10,400.0 | 6,758.9 | 786.4 | 702.4 | 9.353 | SF |
| ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design | 10,148.9 | 6,766.9 | 471.7 | 262.0 | 2.250 | CC, ES |
| ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design | 10,200.0 | 6,766.4 | 474.5 | 263.6 | 2.250 | SF |
| EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1 | 16,156.5 | 6,738.7 | 986.0 | 734.3 | 3.918 | CC, ES, SF |
| EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1 | 11,279.9 | 6,749.2 | 791.3 | 684.7 | 7.421 | CC |
| EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1 | 11,300.0 | 6,748.9 | 791.5 | 684.4 | 7.386 | ES |
| EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1 | 11,400.0 | 6,747.1 | 800.4 | 690.6 | 7.289 | SF |
| EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1 | 11,615.1 | 6,751.2 | 344.7 | 95.6 | 1.384 | Level 3, CC, ES, SF |
| EXIST VERT BAUER 12-4 - Wellbore #1 - Wellbore #1 | 11,585.5 | 6,528.0 | 405.4 | 307.2 | 4.126 | CC |
| EXIST VERT BAUER 12-4 - Wellbore #1 - Wellbore #1 | 11,600.0 | 6,528.0 | 405.7 | 307.1 | 4.115 | ES, SF |
| EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1 | 16,156.5 | 6,699.0 | 810.2 | 438.0 | 2.177 | CC, ES, SF |
| EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1 | 15,492.2 | 6,697.1 | 379.0 | 157.8 | 1.713 | CC |
| EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1 | 15,500.0 | 6,697.1 | 379.0 | 157.7 | 1.712 | ES, SF |
| EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1 | 14,120.3 | 6,727.0 | 883.2 | 699.9 | 4.818 | CC, ES |
| EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1 | 14,200.0 | 6,726.8 | 886.8 | 701.3 | 4.781 | SF |
| EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1 | 15,484.8 | 6,692.8 | 1,022.2 | 801.3 | 4.627 | CC |
| EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1 | 15,500.0 | 6,692.8 | 1,022.4 | 801.0 | 4.619 | ES |
| EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1 | 15,600.0 | 6,693.0 | 1,028.7 | 804.6 | 4.591 | SF |
| EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1 | 12,846.4 | 6,700.0 | 529.1 | 381.0 | 3.573 | CC, ES |
| EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1 | 12,900.0 | 6,700.0 | 531.9 | 382.3 | 3.556 | SF |
| EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1 | 13,020.5 | 6,600.0 | 884.7 | 731.9 | 5.790 | CC, ES |
| EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1 | 13,200.0 | 6,600.0 | 902.8 | 745.1 | 5.727 | SF |
| EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1 | 14,190.6 | 6,724.0 | 455.1 | 136.7 | 1.429 | Level 3, CC |
| EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1 | 14,200.0 | 6,723.9 | 455.2 | 136.6 | 1.429 | Level 3, ES, SF |
| EXIST VERT SITZMAN 32-4 - Wellbore #1 - Wellbore #1 | 14,139.6 | 6,475.0 | 529.6 | 365.1 | 3.220 | CC, ES |
| EXIST VERT SITZMAN 32-4 - Wellbore #1 - Wellbore #1 | 14,200.0 | 6,475.0 | 533.0 | 367.0 | 3.212 | SF |
| MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI | 8,271.2 | 14,501.4 | 439.7 | 189.3 | 1.756 | CC, ES, SF |
| MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI | 8,280.3 | 14,706.5 | 146.5 | -99.6 | 0.595 | Level 1, CC, ES, SF |

| Offset Design NW NE SEC. 5 T5N R64W 6th P.M. - ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design #1 | | | | | | | | | | Offset Site Error: | | 0.0 usft | |
|----------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|---------|
| Survey Program: 0-INC | | | | | | | | | | Offset Well Error: | | 0.0 usft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 79.77 | 670.3 | 3,712.3 | 3,772.4 | | | | |
| 100.0 | 100.0 | 80.0 | 80.0 | 0.1 | 0.7 | 79.77 | 670.3 | 3,712.3 | 3,772.4 | 3,771.6 | 0.76 | 4,979.764 | |
| 200.0 | 200.0 | 180.0 | 180.0 | 0.3 | 2.7 | 79.77 | 670.3 | 3,712.3 | 3,772.4 | 3,769.3 | 3.05 | 1,236.165 | |
| 300.0 | 300.0 | 280.0 | 280.0 | 0.5 | 4.9 | 79.77 | 670.3 | 3,712.3 | 3,772.4 | 3,767.0 | 5.42 | 696.336 | |
| 400.0 | 400.0 | 380.0 | 380.0 | 0.7 | 6.9 | -120.23 | 670.3 | 3,712.3 | 3,773.7 | 3,766.0 | 7.67 | 492.280 | |
| 500.0 | 499.6 | 479.6 | 479.6 | 1.0 | 9.0 | -120.23 | 670.3 | 3,712.3 | 3,777.6 | 3,767.8 | 9.89 | 382.073 | |
| 600.0 | 598.8 | 578.8 | 578.8 | 1.2 | 11.0 | -120.23 | 670.3 | 3,712.3 | 3,784.3 | 3,772.1 | 12.13 | 312.082 | |
| 700.0 | 697.1 | 677.1 | 677.1 | 1.6 | 12.9 | -120.23 | 670.3 | 3,712.3 | 3,793.6 | 3,779.2 | 14.39 | 263.618 | |
| 800.0 | 794.3 | 774.3 | 774.3 | 2.0 | 14.9 | -120.21 | 670.3 | 3,712.3 | 3,805.6 | 3,788.9 | 16.68 | 228.090 | |
| 900.0 | 890.2 | 870.2 | 870.2 | 2.5 | 16.8 | -120.18 | 670.3 | 3,712.3 | 3,820.3 | 3,801.3 | 19.01 | 200.992 | |
| 1,000.0 | 984.4 | 964.4 | 964.4 | 3.1 | 18.7 | -120.13 | 670.3 | 3,712.3 | 3,837.8 | 3,816.5 | 21.35 | 179.718 | |
| 1,100.0 | 1,076.8 | 1,056.8 | 1,056.8 | 3.8 | 20.6 | -120.06 | 670.3 | 3,712.3 | 3,858.1 | 3,834.4 | 23.72 | 162.641 | |
| 1,200.0 | 1,167.1 | 1,147.1 | 1,147.1 | 4.7 | 22.4 | -119.95 | 670.3 | 3,712.3 | 3,881.4 | 3,855.3 | 26.10 | 148.690 | |
| 1,300.0 | 1,254.9 | 1,234.9 | 1,234.9 | 5.6 | 24.2 | -119.80 | 670.3 | 3,712.3 | 3,907.5 | 3,879.0 | 28.50 | 137.123 | |
| 1,400.0 | 1,340.2 | 1,320.2 | 1,320.2 | 6.5 | 25.9 | -119.60 | 670.3 | 3,712.3 | 3,936.5 | 3,905.6 | 30.90 | 127.410 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation