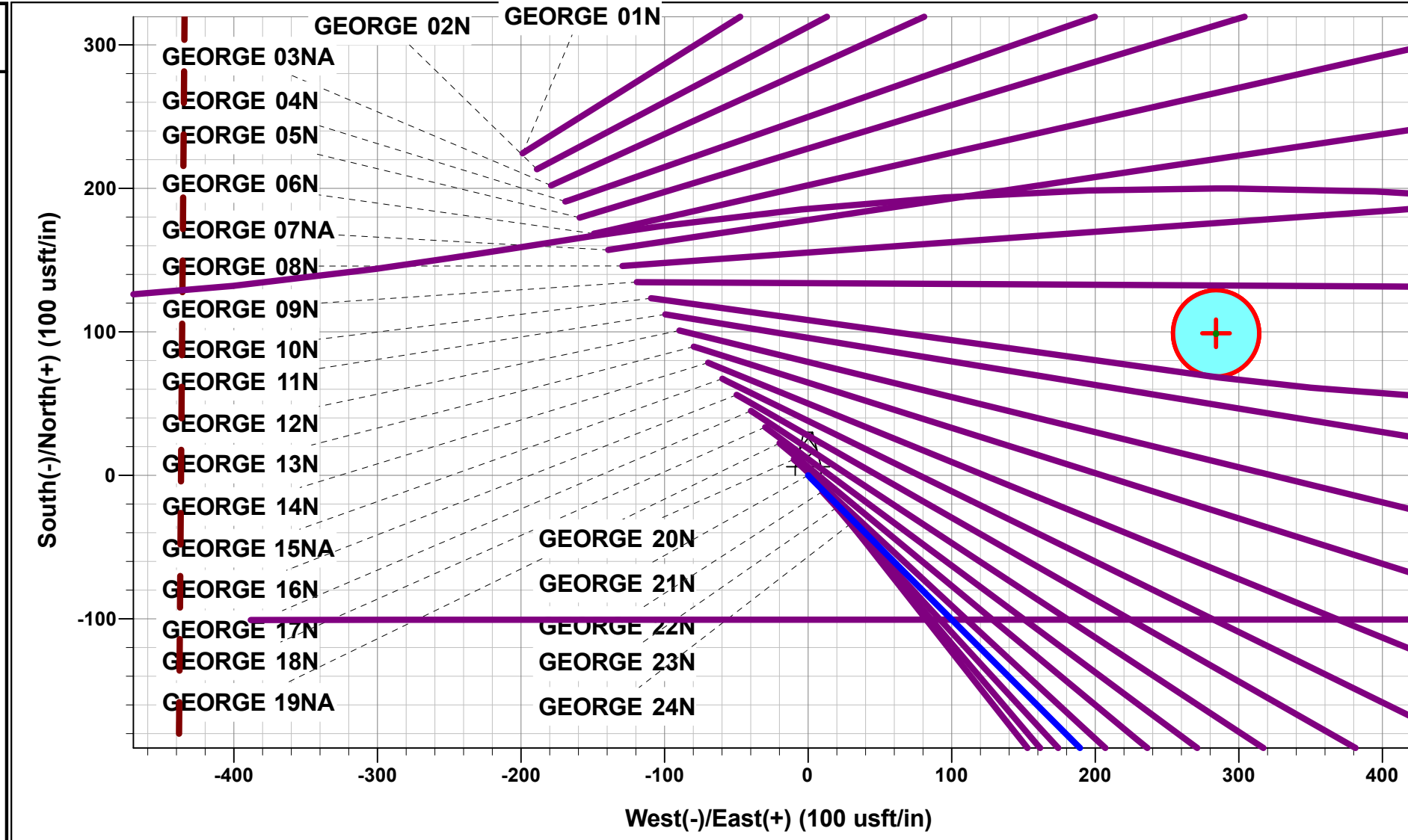




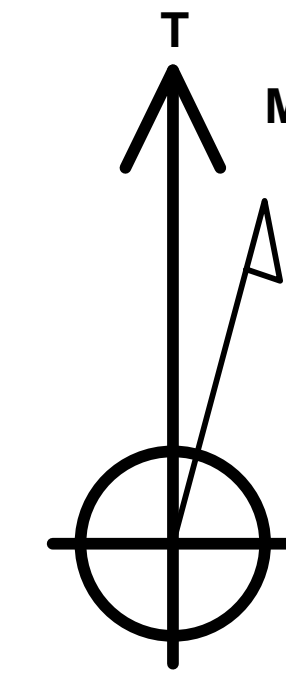
Project: WELD COUNTY, COLORADO (TRUE)  
 Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
 Well: GEORGE 21N  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #1

**ANNOTATIONS**

| MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W    | Vsect    | Dep      | Annotation                             |
|----------|-------|--------|---------|----------|----------|----------|----------|--|
| 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00     | 0.00     | 0.00     | SHL: 1996ft FNL & 2195ft FEL of Sec 21 |
| 600.00   | 0.00  | 0.00   | 600.00  | 0.00     | 0.00     | 0.00     | 0.00     | START NUDDGE (4°/100ft BUR)            |
| 1597.27  | 39.89 | 135.10 | 1518.63 | -236.15  | 235.30   | -155.44  | 333.36   | EOB TO 39.89° INC                      |
| 6077.52  | 39.89 | 135.10 | 4956.19 | -2271.58 | 2263.33  | -1495.17 | 3206.67  | END OF TANGENT                         |
| 7074.80  | 0.00  | 0.00   | 5874.82 | -2507.73 | 2498.63  | -1650.60 | 3540.04  | EOD TO VERTICAL                        |
| 7174.80  | 0.00  | 0.00   | 5974.82 | -2507.73 | 2498.63  | -1650.60 | 3540.04  | KOP (8°/100ft BUR)                     |
| 8112.29  | 75.00 | 269.97 | 6666.61 | -2508.01 | 1967.80  | -1143.17 | 4070.86  | EP: 777ft FSL & 200ft FEL of Sec 21    |
| 8294.05  | 89.54 | 269.97 | 6691.00 | -2508.10 | 1788.18  | -971.47  | 4250.49  | HZ LANDING POINT                       |
| 13062.48 | 89.54 | 269.97 | 6729.28 | -2510.58 | -2980.09 | 3586.66  | 9018.76  | END OF TANGENT                         |
| 13381.46 | 89.54 | 276.35 | 6731.83 | -2493.01 | -3298.42 | 3885.73  | 9337.73  | EOT TO 276.35° AZ                      |
| 13481.46 | 89.54 | 276.35 | 6732.63 | -2481.95 | -3397.80 | 3977.47  | 9437.73  | END OF TANGENT                         |
| 13800.45 | 89.54 | 269.97 | 6735.19 | -2464.37 | -3716.13 | 4276.55  | 9756.71  | EOT TO 269.97° AZ                      |
| 14116.44 | 89.54 | 263.65 | 6737.73 | -2481.95 | -4031.46 | 4583.11  | 10072.69 | EOT TO 263.65° AZ                      |
| 14216.44 | 89.54 | 263.65 | 6738.54 | -2493.01 | -4130.84 | 4681.35  | 10172.69 | END OF TANGENT                         |
| 14532.43 | 89.54 | 269.97 | 6741.09 | -2510.58 | -4446.17 | 4987.90  | 10488.66 | EOT TO 269.97° AZ                      |
| 18251.67 | 89.54 | 269.97 | 6770.93 | -2512.53 | -8165.30 | 8543.12  | 14207.79 | BHL: 777ft FSL & 200ft FWL of Sec 20   |



**PROPOSED LOCAL COORDINATES:**  
 SHL: 1996ft FNL & 2195ft FEL of Sec 21  
 EP: 777ft FSL & 200ft FEL of Sec 21  
 BHL: 777ft FSL & 200ft FWL of Sec 20

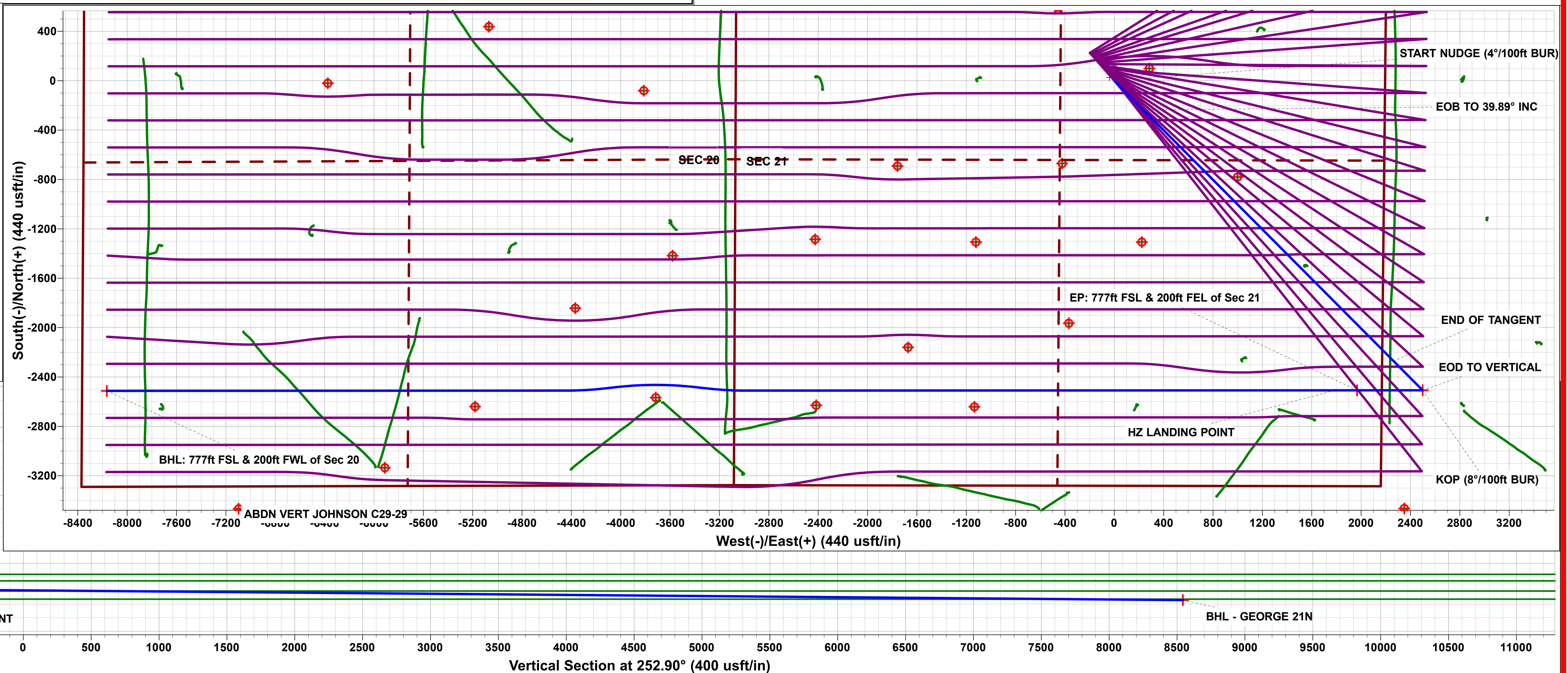
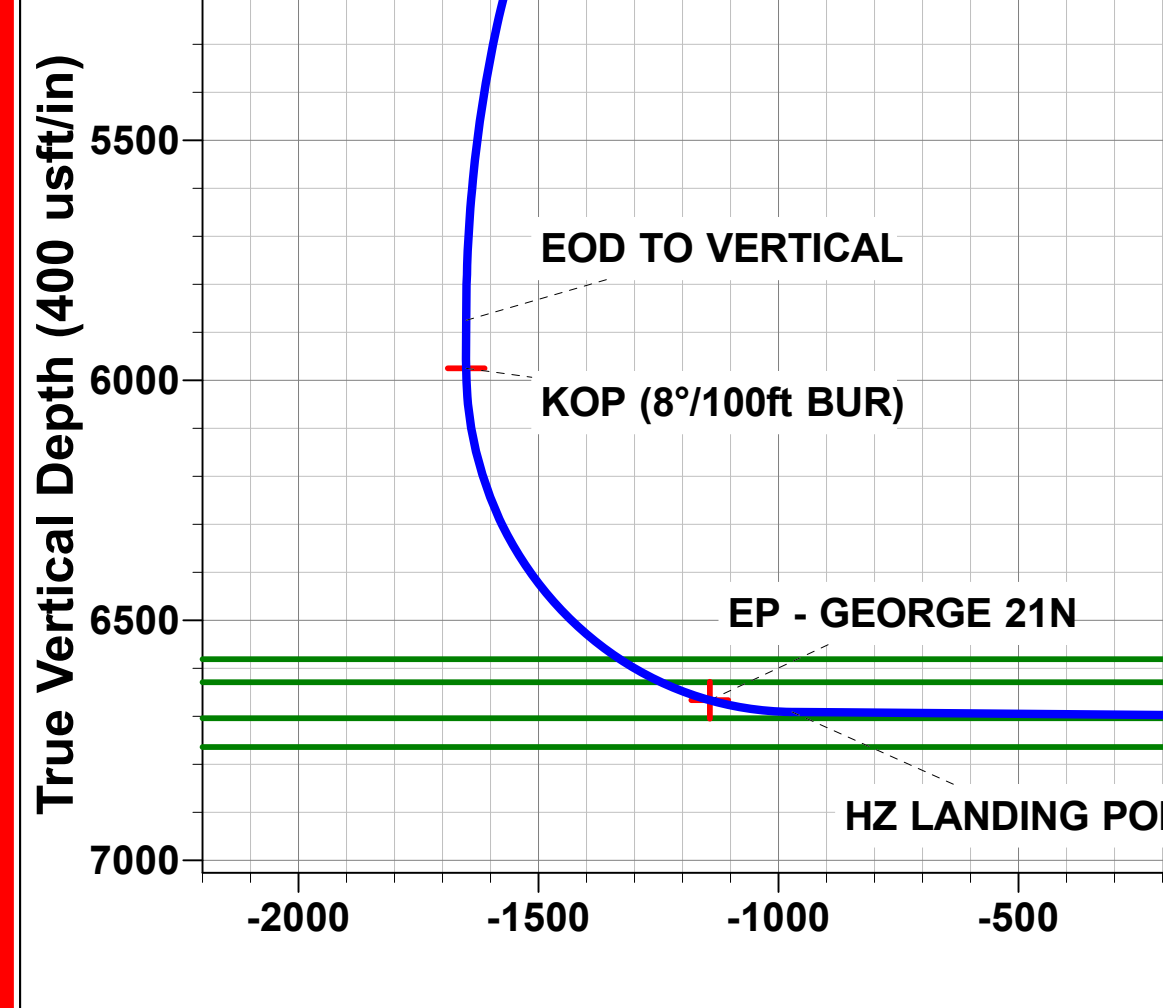
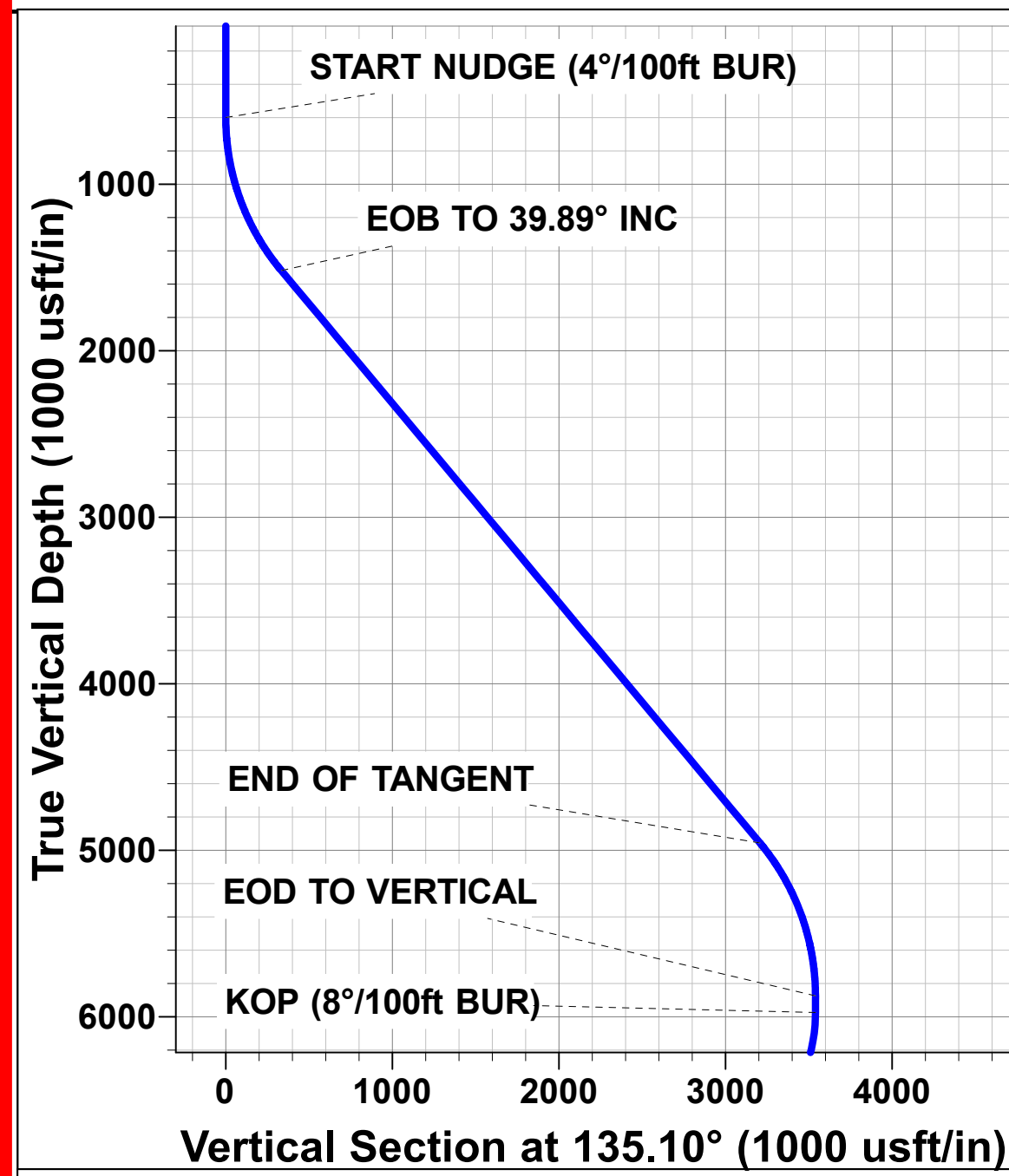


Azimuths to True North  
 Magnetic North: 7.73°

Magnetic Field  
 Strength: 51929.3nT  
 Dip Angle: 66.61°  
 Date: 2021-05-28  
 Model: IGRF2020

**DESIGN TARGET DETAILS**

| Name             | TVD     | +N/-S    | +E/-W    | Northing   | Easting    | Latitude  | Longitude   |
|------------------|---------|----------|----------|------------|------------|-----------|-------------|
| BHL - GEORGE 21N | 6771.00 | -2512.53 | -8165.30 | 1350825.04 | 3255668.09 | 40.292788 | -104.583449 |
| EP - GEORGE 21N  | 6666.61 | -2508.01 | 1967.80  | 1350937.63 | 3265800.13 | 40.292804 | -104.547125 |
| KOP - GEORGE 21N | 5974.82 | -2507.73 | 2498.63  | 1350943.57 | 3266330.90 | 40.292804 | -104.545222 |



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)  
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
GEORGE 21N**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**31 May, 2021**

## Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

|                                     |   |                       |                      |
|-------------------------------------|---|-----------------------|----------------------|
| <b>Reference</b>                    | PROPOSAL #1   |                       |                      |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                      |
| <b>Interpolation Method:</b>        | MD + Stations Interval 100.00usft                                   | <b>Error Model:</b>   | ISCWSA               |
| <b>Depth Range:</b>                 | Unlimited   | <b>Scan Method:</b>   | Closest Approach 3D  |
| <b>Results Limited by:</b>          | Maximum centre distance of 9,999.98usft                             | <b>Error Surface:</b> | Ellipsoid Separation |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma  | <b>Casing Method:</b> | Not applied          |

|                            |                  |                                 |                  |                    |
|----------------------------|------------------|---------------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>      | 2021-05-31                      |                  |                    |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b>        | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 18,251.21        | PROPOSAL #1 (ORIGINAL WELLBORE) | MWD              | MWD - Standard     |

| Site Name  | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning             |
|--|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| <b>Summary</b>                                     |                                 |                              |                                 |                                  |                   |                     |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)           |                                 |                              |                                 |                                  |                   |                     |
| ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #  | 15,717.46                       | 6,931.56                     | 585.68                          | 343.10                           | 2.414             | CC, ES, SF          |
| ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1 | 7,057.16                        | 5,880.27                     | 2,504.00                        | 2,446.52                         | 43.564            | CC, ES              |
| ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1 | 7,250.00                        | 6,084.49                     | 2,509.25                        | 2,451.31                         | 43.312            | SF                  |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 7,074.38                        | 5,903.44                     | 1,186.06                        | 1,155.74                         | 39.124            | CC                  |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 7,100.00                        | 5,928.35                     | 1,186.07                        | 1,155.72                         | 39.081            | ES                  |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 7,250.00                        | 6,078.84                     | 1,189.62                        | 1,159.07                         | 38.941            | SF                  |
| ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo    | 11,800.00                       | 6,896.65                     | 700.10                          | 552.52                           | 4.744             | SF                  |
| ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo    | 11,815.58                       | 6,896.40                     | 699.93                          | 552.43                           | 4.745             | CC, ES              |
| ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #  | 8,400.00                        | 6,694.03                     | 247.17                          | 169.19                           | 3.170             | ES, SF              |
| ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #  | 8,456.57                        | 6,695.80                     | 240.61                          | 173.38                           | 3.579             | CC                  |
| ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1  | 14,935.17                       | 6,757.62                     | 1,193.27                        | 986.96                           | 5.784             | CC                  |
| ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1  | 15,000.00                       | 6,758.06                     | 1,195.03                        | 986.88                           | 5.741             | ES, SF              |
| ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1   | 13,700.67                       | 6,728.39                     | 1,049.35                        | 742.60                           | 3.421             | CC, ES              |
| ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1   | 13,800.00                       | 6,729.18                     | 1,055.75                        | 746.66                           | 3.416             | SF                  |
| ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore    | 17,810.15                       | 6,815.60                     | 108.39                          | -171.36                          | 0.387             | Level 3, CC, ES, SF |
| ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore  | 18,251.67                       | 6,916.56                     | 3,937.65                        | 3,648.40                         | 13.613            | CC, ES, SF          |
| ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig    | 600.00                          | 577.00                       | 733.66                          | 721.23                           | 59.045            | CC, ES              |
| ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig    | 11,400.00                       | 6,692.93                     | 3,203.59                        | 2,955.39                         | 12.907            | SF                  |
| ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig    | 600.00                          | 589.00                       | 1,894.09                        | 1,881.39                         | 149.160           | CC, ES              |
| ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig    | 12,600.00                       | 6,714.57                     | 3,235.78                        | 2,958.86                         | 11.685            | SF                  |
| ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design    | 11,210.76                       | 6,730.41                     | 1,436.21                        | 1,193.50                         | 5.917             | CC, ES              |
| ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design    | 11,300.00                       | 6,731.13                     | 1,438.98                        | 1,195.48                         | 5.909             | SF                  |
| ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore  | 16,576.07                       | 6,754.99                     | 1,337.17                        | 1,086.42                         | 5.333             | CC                  |
| ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore  | 16,600.00                       | 6,755.25                     | 1,337.39                        | 1,085.94                         | 5.319             | ES                  |
| ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore  | 16,700.00                       | 6,756.34                     | 1,342.90                        | 1,089.55                         | 5.301             | SF                  |
| ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design    | 17,183.15                       | 6,819.36                     | 955.63                          | 553.13                           | 2.374             | CC                  |
| ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design    | 17,200.00                       | 6,819.49                     | 955.78                          | 552.94                           | 2.373             | ES, SF              |
| ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1   | 9,900.00                        | 6,675.26                     | 156.72                          | 76.00                            | 1.942             | ES, SF              |
| ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1   | 9,917.84                        | 6,675.65                     | 155.70                          | 78.82                            | 2.025             | CC                  |
| ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design   | 11,200.00                       | 6,731.33                     | 133.02                          | -106.06                          | 0.556             | Level 3, ES, SF     |
| ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design   | 11,216.43                       | 6,731.46                     | 132.00                          | -102.96                          | 0.562             | Level 3, CC         |
| ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore  | 0.00                            | 0.00                         | 1,080.18                        |                                  |                   |                     |
| ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore  | 12,000.00                       | 6,734.19                     | 2,640.31                        | 2,511.75                         | 20.538            | SF                  |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1     | 16,457.97                       | 6,769.54                     | 3,820.92                        | 3,439.26                         | 10.011            | CC                  |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1     | 16,600.00                       | 6,770.68                     | 3,823.56                        | 3,438.00                         | 9.917             | ES                  |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1     | 17,100.00                       | 6,774.69                     | 3,874.49                        | 3,478.22                         | 9.777             | SF                  |

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

Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Summary  |                             |                             |                              |                               |                      |                     |
|--|-----------------------------|-----------------------------|------------------------------|-------------------------------|----------------------|---------------------|
| Site Name<br>Offset Well - Wellbore - Design       | Reference                   | Offset                      | Distance                     |                               | Separation<br>Factor | Warning             |
|  | Measured<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                      |                     |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)           |                             |                             |                              |                               |                      |                     |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1   | 17,688.19                   | 6,800.00                    | 2,570.46                     | 2,288.84                      | 9.127                | CC                  |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1   | 17,800.00                   | 6,800.00                    | 2,572.89                     | 2,288.36                      | 9.043                | ES                  |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1   | 18,000.00                   | 6,800.00                    | 2,589.30                     | 2,301.05                      | 8.983                | SF                  |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1      | 13,795.65                   | 6,615.58                    | 3,853.15                     | 3,677.06                      | 21.882               | CC                  |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1      | 13,800.45                   | 6,615.61                    | 3,853.15                     | 3,676.93                      | 21.865               | ES                  |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1      | 14,900.00                   | 6,622.06                    | 4,053.58                     | 3,853.86                      | 20.296               | SF                  |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1        | 15,153.22                   | 6,742.07                    | 2,949.25                     | 2,603.68                      | 8.534                | CC                  |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1        | 15,200.00                   | 6,742.44                    | 2,949.62                     | 2,602.70                      | 8.502                | ES                  |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1        | 15,600.00                   | 6,745.65                    | 2,982.90                     | 2,626.78                      | 8.376                | SF                  |
| ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1    | 17,928.44                   | 6,833.34                    | 1,437.72                     | 1,014.38                      | 3.396                | CC, ES              |
| ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1    | 18,000.00                   | 6,833.91                    | 1,439.50                     | 1,014.75                      | 3.389                | SF                  |
| ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1 | 18,251.67                   | 6,809.59                    | 1,562.80                     | 1,321.51                      | 6.477                | CC, ES, SF          |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1   | 17,779.88                   | 4,554.00                    | 2,691.92                     | 2,485.12                      | 13.017               | CC                  |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1   | 17,800.00                   | 4,554.00                    | 2,691.99                     | 2,484.89                      | 12.998               | ES                  |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1   | 18,200.00                   | 4,554.00                    | 2,724.51                     | 2,511.25                      | 12.776               | SF                  |
| EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb   | 17,144.46                   | 7,043.00                    | 475.39                       | 186.36                        | 1.645                | CC, ES              |
| EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb   | 17,200.00                   | 7,043.60                    | 478.62                       | 187.53                        | 1.644                | SF                  |
| EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo   | 10,400.00                   | 6,735.00                    | 828.46                       | 724.45                        | 7.965                | SF                  |
| EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo   | 10,452.04                   | 6,734.98                    | 826.83                       | 723.15                        | 7.975                | CC, ES              |
| EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo   | 13,089.33                   | 6,861.15                    | 679.54                       | 506.12                        | 3.918                | CC, ES, SF          |
| EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo   | 14,494.12                   | 6,874.38                    | 635.97                       | 424.69                        | 3.010                | CC                  |
| EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo   | 14,500.00                   | 6,874.38                    | 636.01                       | 424.62                        | 3.009                | ES, SF              |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1  | 15,688.15                   | 6,972.68                    | 1,971.66                     | 1,730.10                      | 8.162                | CC                  |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1  | 15,700.00                   | 6,972.64                    | 1,971.70                     | 1,729.79                      | 8.151                | ES                  |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1  | 15,900.00                   | 6,972.06                    | 1,983.01                     | 1,736.45                      | 8.043                | SF                  |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1  | 14,360.63                   | 7,006.30                    | 2,023.54                     | 1,810.55                      | 9.501                | CC                  |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1  | 14,532.43                   | 7,005.32                    | 2,025.69                     | 1,805.51                      | 9.200                | ES                  |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1  | 14,900.00                   | 7,003.51                    | 2,067.75                     | 1,837.41                      | 8.977                | SF                  |
| EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore  | 9,100.00                    | 6,775.22                    | 871.58                       | 784.96                        | 10.062               | SF                  |
| EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore  | 9,250.78                    | 6,776.58                    | 858.44                       | 774.88                        | 10.273               | CC, ES              |
| EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb   | 13,224.57                   | 6,935.00                    | 123.07                       | 49.82                         | 1.680                | CC, ES, SF          |
| EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID     | 17,940.54                   | 7,226.73                    | 382.05                       | 234.23                        | 2.585                | CC, ES, SF          |
| EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT      | 17,937.74                   | 6,832.32                    | 516.55                       | 216.04                        | 1.719                | CC, ES, SF          |
| EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb   | 13,100.36                   | 10,884.00                   | 1,298.63                     | 1,128.02                      | 7.612                | CC, ES              |
| EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb   | 13,300.00                   | 10,884.00                   | 1,320.74                     | 1,146.81                      | 7.594                | SF                  |
| EXIST VERT API #20-614 - Wellbore #1 - Design #1   | 16,459.01                   | 6,780.55                    | 2,491.21                     | 2,109.31                      | 6.523                | CC                  |
| EXIST VERT API #20-614 - Wellbore #1 - Design #1   | 16,500.00                   | 6,780.88                    | 2,491.55                     | 2,108.48                      | 6.504                | ES                  |
| EXIST VERT API #20-614 - Wellbore #1 - Design #1   | 16,700.00                   | 6,782.48                    | 2,502.84                     | 2,115.12                      | 6.455                | SF                  |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1    | 17,766.20                   | 6,813.04                    | 3,749.12                     | 3,330.67                      | 8.959                | CC                  |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1    | 17,900.00                   | 6,814.11                    | 3,751.51                     | 3,329.43                      | 8.888                | ES                  |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1    | 18,200.00                   | 6,816.52                    | 3,774.13                     | 3,345.38                      | 8.803                | SF                  |
| EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1   | 13,800.00                   | 6,752.18                    | 103.04                       | -200.71                       | 0.339                | Level 3, ES, SF     |
| EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1   | 13,800.51                   | 6,752.19                    | 103.04                       | -200.49                       | 0.339                | Level 3, CC         |
| EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1 | 14,431.06                   | 6,749.27                    | 666.82                       | 341.21                        | 2.048                | CC, ES              |
| EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1 | 14,500.00                   | 6,749.83                    | 669.55                       | 341.45                        | 2.041                | SF                  |
| EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1  | 15,267.05                   | 6,772.98                    | 129.04                       | -215.82                       | 0.374                | Level 3, CC, ES, SF |
| EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore  | 13,720.15                   | 6,775.72                    | 1,323.01                     | 1,148.80                      | 7.594                | CC, ES              |
| EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore  | 13,800.45                   | 6,777.76                    | 1,326.57                     | 1,150.20                      | 7.522                | SF                  |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1  | 5,660.74                    | 4,576.40                    | 2,270.09                     | 2,112.48                      | 14.403               | CC                  |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1  | 5,800.00                    | 4,683.25                    | 2,271.85                     | 2,110.14                      | 14.049               | ES                  |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1  | 7,500.00                    | 6,228.96                    | 2,385.67                     | 2,185.37                      | 11.911               | SF                  |
| EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1   | 7,174.80                    | 5,896.82                    | 2,021.58                     | 1,826.51                      | 10.363               | CC                  |

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

## Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Summary  |                                 |                              |                                 |                                  |                   |                     |
|--|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| Site Name  | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning             |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)           |                                 |                              |                                 |                                  |                   |                     |
| EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1   | 7,200.00                        | 5,922.02                     | 2,021.95                        | 1,826.36                         | 10.338            | ES                  |
| EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1   | 7,350.00                        | 6,070.28                     | 2,039.14                        | 1,840.74                         | 10.278            | SF                  |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 5,691.37                        | 4,618.93                     | 1,348.36                        | 1,280.70                         | 19.929            | CC                  |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 5,700.00                        | 4,625.10                     | 1,348.37                        | 1,280.60                         | 19.894            | ES                  |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 6,077.52                        | 4,900.00                     | 1,372.01                        | 1,300.23                         | 19.114            | SF                  |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1     | 4,204.85                        | 3,434.35                     | 3,918.99                        | 3,805.34                         | 34.484            | CC                  |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1     | 4,500.00                        | 3,660.80                     | 3,923.55                        | 3,801.16                         | 32.057            | ES                  |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1     | 7,750.00                        | 6,405.15                     | 4,301.46                        | 4,100.08                         | 21.360            | SF                  |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig  | 13,612.52                       | 6,760.68                     | 1,328.97                        | 1,023.83                         | 4.355             | CC                  |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig  | 13,700.00                       | 6,761.38                     | 1,330.51                        | 1,023.44                         | 4.333             | ES                  |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig  | 13,800.00                       | 6,762.18                     | 1,336.04                        | 1,027.64                         | 4.332             | SF                  |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des   | 7,174.80                        | 5,908.82                     | 1,645.36                        | 1,473.45                         | 9.571             | CC                  |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des   | 7,200.00                        | 5,934.02                     | 1,645.80                        | 1,473.37                         | 9.545             | ES                  |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des   | 7,300.00                        | 6,033.39                     | 1,656.24                        | 1,481.76                         | 9.492             | SF                  |
| EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1 | 3,038.04                        | 2,588.09                     | 156.81                          | 76.98                            | 1.964             | CC, ES, SF          |
| EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore  | 12,548.34                       | 6,767.53                     | 1,561.16                        | 1,418.31                         | 10.928            | CC, ES              |
| EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore  | 12,700.00                       | 6,769.55                     | 1,568.51                        | 1,423.61                         | 10.825            | SF                  |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig   | 11,838.79                       | 6,723.45                     | 1,818.85                        | 1,560.82                         | 7.049             | CC                  |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig   | 11,900.00                       | 6,723.95                     | 1,819.88                        | 1,559.82                         | 6.998             | ES                  |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig   | 12,100.00                       | 6,725.55                     | 1,837.51                        | 1,571.82                         | 6.916             | SF                  |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig   | 1,317.94                        | 1,286.26                     | 772.97                          | 742.99                           | 25.782            | CC                  |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig   | 1,400.00                        | 1,357.05                     | 774.09                          | 741.88                           | 24.036            | ES                  |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig   | 10,900.00                       | 6,709.92                     | 1,880.90                        | 1,643.09                         | 7.909             | SF                  |
| EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig   | 10,450.85                       | 6,707.31                     | 544.82                          | 320.68                           | 2.431             | CC                  |
| EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig   | 10,500.00                       | 6,707.71                     | 547.03                          | 319.63                           | 2.406             | ES, SF              |
| EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1   | 7,175.46                        | 5,911.04                     | 329.47                          | 291.25                           | 8.620             | CC, ES              |
| EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1   | 7,200.00                        | 5,935.22                     | 329.88                          | 291.60                           | 8.617             | SF                  |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 4,779.95                        | 3,893.60                     | 2,901.65                        | 2,770.46                         | 22.117            | CC                  |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 5,000.00                        | 4,062.44                     | 2,905.08                        | 2,767.39                         | 21.099            | ES                  |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 7,650.00                        | 6,348.92                     | 3,190.03                        | 2,989.86                         | 15.937            | SF                  |
| EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore  | 7,016.45                        | 5,732.62                     | 1,002.94                        | 929.05                           | 13.574            | CC, ES              |
| EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore  | 7,074.80                        | 5,795.89                     | 1,003.25                        | 929.31                           | 13.570            | SF                  |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,500.00                        | 6,243.96                     | 960.47                          | 775.97                           | 5.206             | SF                  |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,600.00                        | 6,330.48                     | 957.79                          | 774.32                           | 5.220             | ES                  |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,645.37                        | 6,367.26                     | 957.42                          | 774.70                           | 5.240             | CC                  |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des   | 7,174.80                        | 5,914.82                     | 2,200.90                        | 2,058.18                         | 15.421            | CC                  |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des   | 7,200.00                        | 5,940.02                     | 2,201.23                        | 2,057.99                         | 15.367            | ES                  |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des   | 7,450.00                        | 6,183.30                     | 2,240.49                        | 2,092.03                         | 15.092            | SF                  |
| EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore | 17,804.38                       | 6,771.43                     | 1,175.49                        | 890.98                           | 4.132             | CC, ES              |
| EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore | 17,900.00                       | 6,771.57                     | 1,179.37                        | 893.10                           | 4.120             | SF                  |
| EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design   | 15,998.33                       | 6,790.85                     | 623.95                          | 254.73                           | 1.690             | CC                  |
| EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design   | 16,000.00                       | 6,790.86                     | 623.95                          | 254.71                           | 1.690             | ES, SF              |
| EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design  | 15,148.01                       | 6,795.03                     | 1,396.91                        | 1,050.46                         | 4.032             | CC                  |
| EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design  | 15,200.00                       | 6,795.44                     | 1,397.88                        | 1,050.42                         | 4.023             | ES, SF              |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor  | 2,980.62                        | 2,462.46                     | 2,909.85                        | 2,881.67                         | 103.275           | CC                  |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor  | 3,100.00                        | 2,552.14                     | 2,910.87                        | 2,880.96                         | 97.304            | ES                  |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor  | 9,400.00                        | 6,665.55                     | 4,295.83                        | 4,213.23                         | 52.010            | SF                  |
| EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1  | 11,753.45                       | 6,747.77                     | 350.29                          | 94.46                            | 1.369             | Level 3, CC, ES     |
| EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1  | 11,800.00                       | 6,748.14                     | 353.36                          | 94.62                            | 1.366             | Level 3, SF         |
| EXIST VERT KLEIN #1 - Wellbore #1 - Design #1      | 12,498.59                       | 6,751.75                     | 119.22                          | -149.48                          | 0.444             | Level 3, CC, ES, SF |
| EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1   | 12,506.13                       | 6,727.81                     | 1,225.07                        | 949.98                           | 4.453             | CC, ES              |
| EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1   | 12,600.00                       | 6,728.57                     | 1,228.66                        | 950.48                           | 4.417             | SF                  |

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

## Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Summary   |                                 |                              |                                 |                                  |                   |                            |
|---|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|----------------------------|
| Site Name   | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning                    |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)                |                                 |                              |                                 |                                  |                   |                            |
| EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design       | 7,174.80                        | 5,920.82                     | 1,646.21                        | 1,475.07                         | 9.619             | CC                         |
| EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design       | 7,300.00                        | 6,045.39                     | 1,647.12                        | 1,473.88                         | 9.508             | ES                         |
| EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design       | 7,450.00                        | 6,189.30                     | 1,651.20                        | 1,476.68                         | 9.461             | SF                         |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1       | 100.00                          | 66.49                        | 2,416.11                        | 2,415.96                         | 10,000.000        | CC                         |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1       | 12,500.00                       | 6,707.10                     | 2,439.64                        | 2,297.57                         | 17.171            | ES                         |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1       | 13,062.48                       | 6,711.41                     | 2,516.64                        | 2,361.81                         | 16.255            | SF                         |
| EXIST VERT LEONARD #3 - Wellbore #1 - Design #1         | 11,203.41                       | 6,736.35                     | 1,202.44                        | 959.83                           | 4.956             | CC, ES                     |
| EXIST VERT LEONARD #3 - Wellbore #1 - Design #1         | 11,400.00                       | 6,737.93                     | 1,218.40                        | 969.11                           | 4.887             | SF                         |
| EXIST VERT LEONARD #4 - Wellbore #1 - Design #1         | 1,216.02                        | 1,171.21                     | 271.20                          | 244.41                           | 10.122            | CC, ES                     |
| EXIST VERT LEONARD #4 - Wellbore #1 - Design #1         | 1,500.00                        | 1,415.94                     | 306.65                          | 272.63                           | 9.014             | SF                         |
| EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1      | 2,766.59                        | 2,397.81                     | 764.80                          | 692.67                           | 10.604            | CC                         |
| EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1      | 2,800.00                        | 2,423.45                     | 765.10                          | 691.99                           | 10.464            | ES                         |
| EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1      | 10,100.00                       | 6,687.49                     | 1,225.68                        | 1,004.56                         | 5.543             | SF                         |
| EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor      | 9,053.19                        | 6,681.00                     | 245.95                          | 183.45                           | 3.935             | CC                         |
| EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor      | 9,100.00                        | 6,681.18                     | 250.37                          | 179.55                           | 3.535             | ES, SF                     |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1        | 14,164.71                       | 6,718.12                     | 3,343.11                        | 3,026.61                         | 10.563            | CC                         |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1        | 14,600.00                       | 6,721.63                     | 3,346.55                        | 3,016.22                         | 10.131            | ES                         |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1        | 15,100.00                       | 6,725.64                     | 3,393.48                        | 3,051.46                         | 9.922             | SF                         |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1        | 15,635.45                       | 6,755.94                     | 3,383.13                        | 3,024.22                         | 9.426             | CC                         |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1        | 15,700.00                       | 6,756.46                     | 3,383.74                        | 3,023.01                         | 9.380             | ES                         |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1        | 16,200.00                       | 6,760.47                     | 3,429.90                        | 3,058.01                         | 9.223             | SF                         |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1         | 4,131.70                        | 3,372.76                     | 2,025.95                        | 1,980.87                         | 44.943            | CC                         |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1         | 4,200.00                        | 3,422.29                     | 2,026.47                        | 1,980.39                         | 43.985            | ES                         |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1         | 5,500.00                        | 4,452.83                     | 2,205.26                        | 2,145.06                         | 36.632            | SF                         |
| EXIST VERT NIX #1 - Wellbore #1 - Design #1             | 8,400.00                        | 6,643.85                     | 1,582.41                        | 1,386.23                         | 8.066             | SF                         |
| EXIST VERT NIX #1 - Wellbore #1 - Design #1             | 8,600.00                        | 6,645.45                     | 1,567.68                        | 1,375.40                         | 8.153             | ES                         |
| EXIST VERT NIX #1 - Wellbore #1 - Design #1             | 8,615.95                        | 6,645.58                     | 1,567.60                        | 1,375.61                         | 8.165             | CC                         |
| EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1         | 9,885.29                        | 6,689.77                     | 1,439.48                        | 1,227.15                         | 6.780             | CC, ES, SF                 |
| EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1     | 18,251.67                       | 6,838.00                     | 2,600.86                        | 2,180.23                         | 6.183             | CC, ES, SF                 |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore      | 17,030.83                       | 6,763.44                     | 3,245.59                        | 2,982.45                         | 12.334            | CC                         |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore      | 17,100.00                       | 6,762.93                     | 3,246.33                        | 2,981.27                         | 12.248            | ES                         |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore      | 17,600.00                       | 6,759.40                     | 3,295.12                        | 3,020.14                         | 11.983            | SF                         |
| <b>EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1</b> | <b>4,426.63</b>                 | <b>3,811.83</b>              | <b>36.01</b>                    | <b>-13.27</b>                    | <b>0.731</b>      | <b>Level 3, CC, ES, SF</b> |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1         | 14,951.91                       | 6,737.45                     | 3,600.12                        | 3,260.10                         | 10.588            | CC                         |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1         | 15,100.00                       | 6,738.64                     | 3,603.16                        | 3,259.03                         | 10.470            | ES                         |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1         | 15,600.00                       | 6,742.65                     | 3,657.98                        | 3,302.76                         | 10.298            | SF                         |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1          | 13,852.84                       | 6,726.61                     | 2,384.65                        | 2,074.35                         | 7.685             | CC                         |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1          | 13,900.00                       | 6,726.99                     | 2,385.50                        | 2,073.72                         | 7.651             | ES                         |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1          | 14,100.00                       | 6,728.60                     | 2,407.99                        | 2,090.75                         | 7.590             | SF                         |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo      | 1,948.51                        | 1,723.45                     | 1,152.53                        | 1,139.22                         | 86.553            | CC                         |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo      | 2,000.00                        | 1,761.89                     | 1,153.03                        | 1,138.98                         | 82.060            | ES                         |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo      | 10,400.00                       | 6,621.72                     | 3,264.77                        | 3,169.50                         | 34.271            | SF                         |
| EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1      | 18,251.67                       | 6,851.00                     | 843.38                          | 639.73                           | 4.141             | CC, ES, SF                 |
| GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #             | 618.33                          | 622.61                       | 296.81                          | 294.22                           | 114.540           | CC, ES                     |
| GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #             | 18,251.67                       | 18,121.45                    | 4,382.83                        | 3,794.49                         | 7.450             | SF                         |
| GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #             | 634.12                          | 640.44                       | 282.19                          | 279.59                           | 108.655           | CC, ES                     |
| GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #             | 18,251.67                       | 18,000.00                    | 4,162.54                        | 3,573.60                         | 7.068             | SF                         |
| GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL              | 627.87                          | 632.19                       | 268.94                          | 266.40                           | 105.719           | CC, ES                     |
| GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL              | 18,251.67                       | 17,952.53                    | 3,943.92                        | 3,354.76                         | 6.694             | SF                         |
| GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #             | 600.00                          | 600.00                       | 254.90                          | 252.48                           | 105.301           | CC, ES                     |
| GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #             | 18,251.67                       | 17,988.98                    | 3,647.89                        | 3,058.01                         | 6.184             | SF                         |
| GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #             | 600.00                          | 600.00                       | 239.95                          | 237.53                           | 99.122            | CC, ES                     |

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

## Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Summary                                     |                                 |                              |                                 |                                  |                   |                 |
|---|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------------|
| Site Name                                   | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning         |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)    |                                 |                              |                                 |                                  |                   |                 |
| GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,909.84                    | 3,505.53                        | 2,914.75                         | 5.934             | SF              |
| GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 601.00                       | 224.95                          | 222.52                           | 92.839            | CC, ES          |
| GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,950.05                    | 3,287.29                        | 2,696.25                         | 5.562             | SF              |
| GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL  | 600.00                          | 601.00                       | 209.92                          | 207.49                           | 86.636            | CC, ES          |
| GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL  | 18,251.67                       | 17,841.50                    | 3,067.74                        | 2,475.41                         | 5.179             | SF              |
| GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 601.00                       | 194.98                          | 192.56                           | 80.471            | CC, ES          |
| GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,878.45                    | 2,848.24                        | 2,255.57                         | 4.806             | SF              |
| GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 179.95                          | 177.52                           | 74.199            | CC, ES          |
| GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,050.99                    | 2,629.95                        | 2,034.21                         | 4.415             | SF              |
| GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 164.95                          | 162.52                           | 68.013            | CC, ES          |
| GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,973.12                    | 2,410.05                        | 1,814.37                         | 4.046             | SF              |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 0.00                            | 2.00                         | 149.95                          |                                  |                   |                 |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 149.95                          | 147.52                           | 61.829            | ES              |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,000.53                    | 2,192.08                        | 1,597.18                         | 3.685             | SF              |
| GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 134.94                          | 132.52                           | 55.642            | CC, ES          |
| GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,953.18                    | 1,971.87                        | 1,377.31                         | 3.317             | SF              |
| GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 119.94                          | 117.52                           | 49.456            | CC, ES          |
| GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,999.44                    | 1,754.17                        | 1,160.76                         | 2.956             | SF              |
| GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 602.00                       | 104.91                          | 102.49                           | 43.259            | CC, ES          |
| GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 17,957.14                    | 1,533.81                        | 940.01                           | 2.583             | SF              |
| GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL  | 600.00                          | 601.00                       | 89.96                           | 87.53                            | 37.127            | CC, ES          |
| GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL  | 18,251.67                       | 17,951.74                    | 1,315.53                        | 723.32                           | 2.221             | SF              |
| GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 601.00                       | 74.95                           | 72.53                            | 30.935            | CC, ES          |
| GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,005.75                    | 1,096.27                        | 508.60                           | 1.865             | SF              |
| GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 601.00                       | 60.00                           | 57.58                            | 24.762            | CC, ES          |
| GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,041.17                    | 876.39                          | 284.38                           | 1.480             | Level 3, SF     |
| GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 601.00                       | 44.99                           | 42.56                            | 18.567            | CC, ES          |
| GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,144.05                    | 661.01                          | 81.38                            | 1.140             | Level 3, SF     |
| GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL  | 600.00                          | 600.00                       | 29.99                           | 27.56                            | 12.387            | CC              |
| GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL  | 17,200.00                       | 17,041.46                    | 378.68                          | -94.31                           | 0.801             | Level 3, ES, SF |
| GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL # | 600.00                          | 600.00                       | 14.96                           | 12.54                            | 6.178             | CC              |
| GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL # | 18,237.02                       | 18,244.10                    | 228.55                          | -166.16                          | 0.579             | Level 3, ES, SF |
| GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL # | 500.00                          | 499.00                       | 15.04                           | 13.07                            | 7.638             | CC              |
| GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,308.40                    | 219.15                          | -367.06                          | 0.374             | Level 3, ES, SF |
| GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL # | 400.00                          | 399.00                       | 29.99                           | 28.48                            | 19.741            | CC              |
| GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,434.83                    | 442.97                          | -65.84                           | 0.871             | Level 3, ES, SF |
| GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL # | 300.00                          | 298.00                       | 44.98                           | 43.91                            | 42.129            | CC, ES          |
| GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL # | 18,251.67                       | 18,467.86                    | 657.29                          | 70.05                            | 1.119             | Level 3, SF     |

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

### Anticollision Report

|                           |  |                                     |                       |
|---------------------------|--|-------------------------------------|-----------------------|
| <b>Company:</b>           | PDC ENERGY                               | <b>Local Co-ordinate Reference:</b> | Well GEORGE 21N       |
| <b>Project:</b>           | WELD COUNTY, COLORADO (TRUE)             | <b>TVD Reference:</b>               | KB 23ft @ 4741.00usft |
| <b>Reference Site:</b>    | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | <b>MD Reference:</b>                | KB 23ft @ 4741.00usft |
| <b>Site Error:</b>        | 0.00 usft                                | <b>North Reference:</b>             | True                  |
| <b>Reference Well:</b>    | GEORGE 21N                               | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft                                | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | ORIGINAL WELLBORE                        | <b>Database:</b>                    | Database 1            |
| <b>Reference Design:</b>  | PROPOSAL #1                              | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Summary  |                                 |                              |                                 |                                  |                   |           |
|--|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------|
| Site Name  | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning   |
| SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)                  |                                 |                              |                                 |                                  |                   |           |
| ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo          | 612.07                          | 589.90                       | 2,551.60                        | 2,550.02                         | 1,614.610         | CC, ES    |
| ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo          | 13,700.00                       | 6,700.00                     | 4,023.91                        | 3,857.99                         | 24.252            | SF        |
| ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1         | 600.00                          | 588.00                       | 1,514.88                        | 1,502.19                         | 119.393           | CC, ES    |
| ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1         | 12,200.00                       | 6,710.35                     | 3,673.69                        | 3,407.11                         | 13.781            | SF        |
| DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1              | 8,050.00                        | 18,757.30                    | 4,839.01                        | 4,479.48                         | 13.459            | SF        |
| DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1              | 13,800.00                       | 13,020.48                    | 4,790.07                        | 4,470.28                         | 14.979            | ES        |
| DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1              | 13,801.16                       | 13,019.32                    | 4,790.07                        | 4,470.28                         | 14.979            | CC        |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1              | 8,050.00                        | 18,931.07                    | 4,694.13                        | 4,332.16                         | 12.968            | SF        |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1              | 13,800.00                       | 13,191.19                    | 4,570.59                        | 4,247.89                         | 14.164            | ES        |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1              | 13,801.16                       | 13,190.03                    | 4,570.59                        | 4,247.90                         | 14.164            | CC        |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #      | 100.00                          | 58.75                        | 2,044.84                        | 2,044.68                         | 10,000.000        | CC        |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #      | 200.00                          | 155.05                       | 2,045.04                        | 2,044.55                         | 4,198.794         | ES        |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #      | 10,800.00                       | 6,768.56                     | 5,259.28                        | 5,146.36                         | 46.578            | SF        |
| <b>EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo</b> | <b>7,905.86</b>                 | <b>10,973.80</b>             | <b>144.28</b>                   | <b>84.57</b>                     | <b>2.416</b>      | <b>CC</b> |
| EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo        | 7,950.00                        | 10,973.63                    | 152.17                          | 77.11                            | 2.027             | ES        |
| EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo        | 8,050.00                        | 10,973.65                    | 213.76                          | 95.25                            | 1.804             | SF        |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig         | 600.00                          | 570.00                       | 1,305.17                        | 1,292.92                         | 106.512           | CC        |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig         | 700.00                          | 669.92                       | 1,307.15                        | 1,292.68                         | 90.290            | ES        |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig         | 11,100.00                       | 6,683.52                     | 3,995.51                        | 3,754.18                         | 16.556            | SF        |
| EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We         | 615.25                          | 564.73                       | 2,418.69                        | 2,416.97                         | 1,408.593         | CC, ES    |
| EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We         | 12,000.00                       | 6,648.35                     | 5,448.33                        | 5,327.47                         | 45.079            | SF        |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1         | 1,311.46                        | 1,218.24                     | 2,009.96                        | 2,004.81                         | 390.607           | CC        |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1         | 1,400.00                        | 1,292.47                     | 2,010.48                        | 2,004.44                         | 332.960           | ES        |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1         | 10,800.00                       | 6,628.24                     | 4,373.37                        | 4,272.66                         | 43.426            | SF        |

| Offset Design: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) - ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #1 |                       |                       |                       |                  |               |                       |                        |              |                         |                         |                           |                   | Offset Site Error: 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|-------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 378-MWD  |                       |                       |                       |                  |               |                       |                        |              |                         |                         |                           |                   | Offset Well Error: 0.00 usft |
| Measured Depth (usft)  | Vertical Depth (usft) | Offset                |                       | Semi Major Axis  |               | Highside Toolface (°) | Offset Wellbore Centre |              | Rule Assigned: Distance |                         |                           |                   | Warning                      |
|  |                       | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) |                       | +N/-S (usft)           | +E/-W (usft) | Between Centres (usft)  | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 0.00   | 0.00                  | 37.83                 | 37.83                 | 0.00             | 0.04          | -117.67               | -3,128.01              | -5,964.71    | 6,735.14                |                         |                           |                   |                              |
| 100.00   | 100.00                | 137.38                | 137.38                | 0.09             | 0.15          | -117.67               | -3,128.04              | -5,964.69    | 6,735.15                | 6,734.91                | 0.24                      | N/A               |                              |
| 200.00   | 200.00                | 1,503.00              | 1,483.39              | 0.31             | 4.30          | -116.57               | -2,956.79              | -5,913.42    | 6,727.71                | 6,723.44                | 4.27                      | 1,575.591         |                              |
| 300.00   | 300.00                | 1,573.94              | 1,551.63              | 0.54             | 4.65          | -116.44               | -2,938.00              | -5,908.53    | 6,709.36                | 6,704.66                | 4.70                      | 1,426.050         |                              |
| 400.00   | 400.00                | 1,653.26              | 1,628.03              | 0.76             | 5.01          | -116.30               | -2,917.37              | -5,903.25    | 6,691.45                | 6,686.26                | 5.19                      | 1,288.709         |                              |
| 500.00   | 500.00                | 1,781.29              | 1,751.48              | 0.99             | 5.61          | -116.08               | -2,884.76              | -5,893.97    | 6,673.32                | 6,667.43                | 5.90                      | 1,131.863         |                              |
| 600.00   | 600.00                | 1,845.00              | 1,812.91              | 1.21             | 5.93          | -115.97               | -2,868.40              | -5,889.66    | 6,655.54                | 6,649.18                | 6.36                      | 1,045.863         |                              |
| 700.00   | 699.92                | 1,898.85              | 1,864.86              | 1.42             | 6.18          | -109.66               | -2,854.61              | -5,886.34    | 6,639.48                | 6,632.71                | 6.77                      | 981.172           |                              |
| 800.00   | 799.35                | 2,068.64              | 2,028.90              | 1.63             | 6.99          | -110.62               | -2,812.34              | -5,874.82    | 6,625.92                | 6,618.29                | 7.64                      | 867.779           |                              |
| 900.00   | 897.81                | 2,201.11              | 2,156.74              | 1.90             | 7.66          | -111.48               | -2,779.34              | -5,864.01    | 6,613.53                | 6,605.10                | 8.44                      | 783.881           |                              |
| 1,000.00   | 994.82                | 2,304.38              | 2,256.03              | 2.27             | 8.20          | -112.23               | -2,752.15              | -5,855.94    | 6,603.64                | 6,594.40                | 9.24                      | 714.540           |                              |
| 1,100.00   | 1,089.91              | 2,378.55              | 2,327.37              | 2.78             | 8.58          | -112.80               | -2,732.70              | -5,850.18    | 6,596.77                | 6,586.72                | 10.05                     | 656.593           |                              |
| 1,200.00   | 1,182.61              | 2,453.42              | 2,399.34              | 3.44             | 8.96          | -113.28               | -2,712.82              | -5,844.63    | 6,593.15                | 6,582.15                | 11.00                     | 599.390           |                              |
| 1,280.08   | 1,254.82              | 2,574.12              | 2,515.27              | 4.09             | 9.60          | -113.93               | -2,680.52              | -5,835.42    | 6,592.44                | 6,580.29                | 12.14                     | 542.841           |                              |
| 1,300.00   | 1,272.47              | 2,589.82              | 2,530.34              | 4.26             | 9.68          | -114.01               | -2,676.29              | -5,834.15    | 6,592.51                | 6,580.14                | 12.37                     | 532.957           |                              |
| 1,400.00   | 1,359.05              | 2,678.12              | 2,614.95              | 5.23             | 10.16         | -114.42               | -2,652.10              | -5,826.88    | 6,594.64                | 6,580.95                | 13.69                     | 481.649           |                              |
| 1,500.00   | 1,441.94              | 2,768.70              | 2,701.58              | 6.37             | 10.66         | -114.77               | -2,626.59              | -5,819.87    | 6,600.50                | 6,585.32                | 15.18                     | 434.857           |                              |
| 1,597.27   | 1,518.63              | 2,831.60              | 2,761.63              | 7.62             | 11.01         | -114.85               | -2,608.54              | -5,814.94    | 6,609.51                | 6,592.87                | 16.64                     | 397.161           |                              |
| 1,600.00   | 1,520.73              | 2,833.04              | 2,763.01              | 7.66             | 11.01         | -114.86               | -2,608.13              | -5,814.82    | 6,609.81                | 6,593.13                | 16.68                     | 396.169           |                              |

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