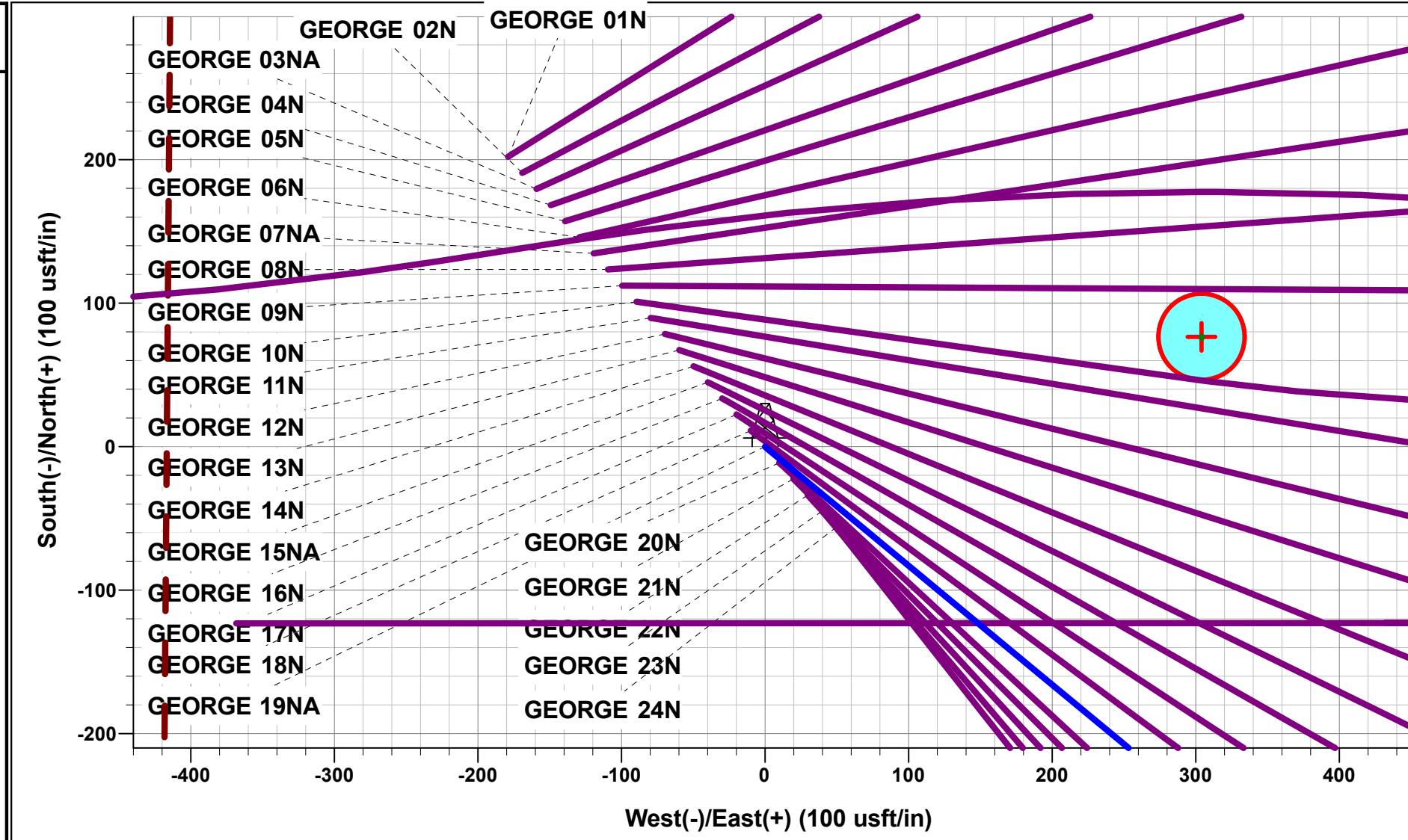




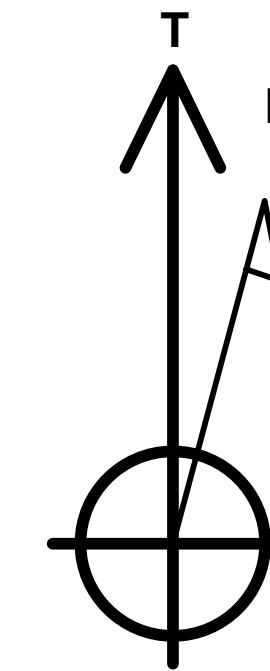
Project: WELD COUNTY, COLORADO (TRUE)
 Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
 Well: GEORGE 19NA
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

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: 1973ft FNL & 2215ft FEL of Sec 21 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | START NUDDGE (4°/100ft BUR) |
| 1780.96 | 39.24 | 129.67 | 1706.06 | -206.17 | 248.61 | -189.35 | 322.98 | EOB TO 39.24° INC |
| 5941.86 | 39.24 | 129.67 | 4928.76 | -1886.26 | 2274.59 | -1732.35 | 2954.95 | END OF TANGENT |
| 6922.82 | 0.00 | 0.00 | 5834.82 | -2092.43 | 2523.20 | -1921.70 | 3277.93 | EOD TO VERTICAL |
| 7022.82 | 0.00 | 0.00 | 5934.82 | -2092.43 | 2523.20 | -1921.70 | 3277.93 | KOP (8°/100ft BUR) |
| 7960.32 | 75.00 | 269.98 | 6626.61 | -2092.62 | 1992.37 | -1407.59 | 3808.75 | EP: 1215ft FSL & 200ft FEL of Sec 21 |
| 8142.44 | 89.57 | 269.98 | 6651.00 | -2092.69 | 1812.38 | -1233.27 | 3988.75 | HZ LANDING POINT |
| 11204.56 | 89.57 | 269.98 | 6673.98 | -2093.81 | -1249.65 | 1732.31 | 7050.78 | END OF TANGENT |
| 11355.61 | 89.57 | 273.00 | 6675.11 | -2089.89 | -1400.63 | 1877.53 | 7201.82 | EOT TO 273° AZ |
| 11455.61 | 89.57 | 273.00 | 6675.87 | -2084.65 | -1500.49 | 1972.93 | 7301.82 | END OF TANGENT |
| 11606.60 | 89.57 | 269.98 | 6677.00 | -2080.73 | -1651.41 | 2118.11 | 7452.81 | EOT TO 269.98° AZ |
| 11763.10 | 89.57 | 266.85 | 6678.18 | -2085.05 | -1807.82 | 2270.66 | 7609.30 | EOT TO 266.85° AZ |
| 11863.10 | 89.57 | 266.85 | 6678.93 | -2090.55 | -1907.67 | 2368.72 | 7709.30 | END OF TANGENT |
| 12019.60 | 89.57 | 269.98 | 6680.11 | -2094.88 | -2064.08 | 2521.27 | 7865.79 | EOT TO 269.98° AZ |
| 16095.45 | 89.57 | 269.98 | 6710.91 | -2096.30 | -6139.81 | 6468.60 | 11941.52 | END OF TANGENT |
| 16474.44 | 89.57 | 262.40 | 6713.76 | -2121.46 | -6517.68 | 6840.80 | 12320.50 | EOT TO 262.4° AZ |
| 16574.44 | 89.57 | 262.40 | 6714.51 | -2134.69 | -6616.80 | 6940.09 | 12420.50 | END OF TANGENT |
| 16953.42 | 89.57 | 269.98 | 6717.36 | -2159.85 | -6994.66 | 7312.29 | 12799.48 | EOT TO 269.98° AZ |
| 17124.42 | 89.57 | 273.40 | 6718.66 | -2154.81 | -7165.55 | 7476.52 | 12970.47 | EOT TO 273.4° AZ |
| 18103.37 | 89.57 | 273.40 | 6726.00 | -2096.79 | -8142.75 | 8408.38 | 13949.39 | BHL: 1216ft FSL & 200ft FWL of Sec 20 |



PROPOSED LOCAL COORDINATES:
 SHL: 1973ft FNL & 2215ft FEL of Sec 21
 EP: 1215ft FSL & 200ft FEL of Sec 21
 BHL: 1216ft FSL & 200ft FWL of Sec 20

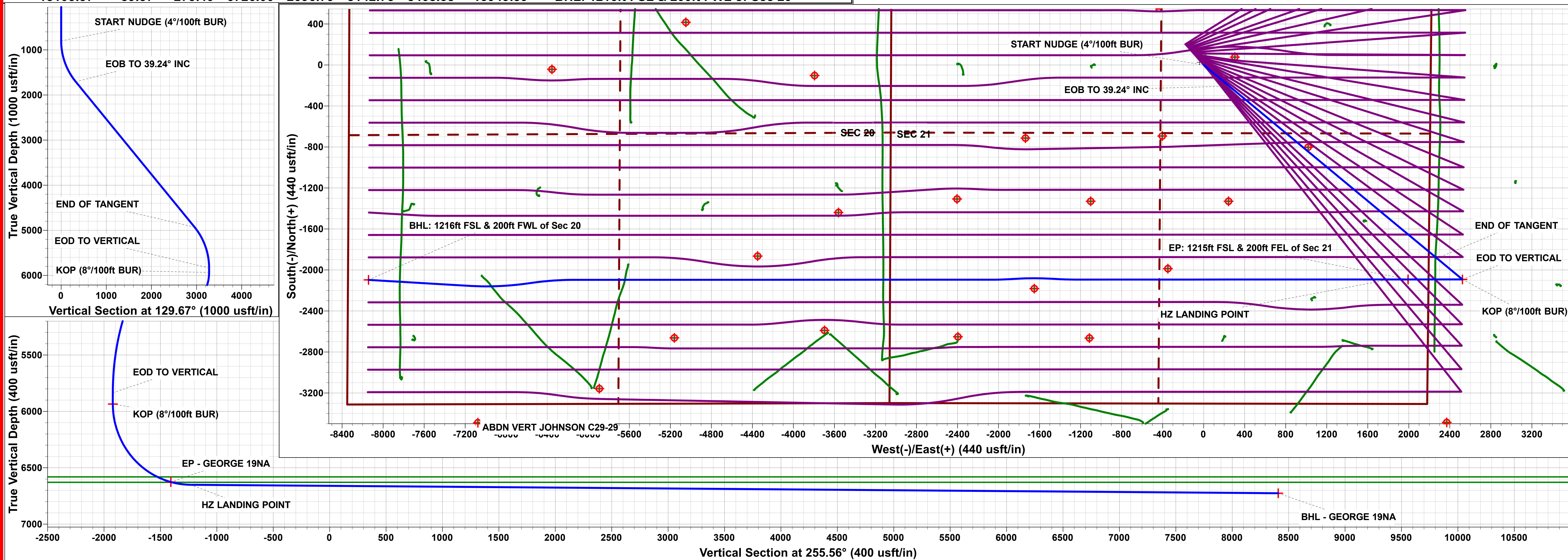


Azimuths to True North
 Magnetic North: 7.73°

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 19NA | 6726.00 | -2096.79 | -8142.75 | 1351263.21 | 3255666.07 | 40.293990 | -104.583440 |
| EP - GEORGE 19NA | 6626.61 | -2092.62 | 1992.37 | 1351375.46 | 3265800.14 | 40.294005 | -104.547108 |
| KOP - GEORGE 19NA | 5934.82 | -2092.43 | 2523.20 | 1351381.32 | 3266330.91 | 40.294006 | -104.545205 |



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
GEORGE 19NA**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 May, 2021

Anticollision Report

| | | | |
|---------------------------|--|-------------------------------------|-----------------------|
| Company: | PDC ENERGY | Local Co-ordinate Reference: | Well GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | Offset Datum |

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

| | | | | |
|----------------------------|------------------|---------------------------------|------------------|--------------------|
| Survey Tool Program | Date | 2021-05-29 | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 0.00 | 18,103.36 | 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 |
|--|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| Summary | | | | | | |
| SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | | | | | | |
| ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore # | 15,567.69 | 6,897.09 | 147.17 | -93.01 | 0.613 | Level 3, CC, ES, SF |
| ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1 | 6,906.93 | 5,840.37 | 2,645.29 | 2,603.25 | 62.925 | CC, ES |
| ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1 | 7,200.00 | 6,146.74 | 2,667.22 | 2,624.33 | 62.195 | SF |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 6,976.29 | 5,917.65 | 1,467.84 | 1,441.26 | 55.224 | CC |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 7,022.82 | 5,962.57 | 1,467.86 | 1,441.22 | 55.100 | ES |
| ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1 | 7,050.00 | 5,988.80 | 1,468.25 | 1,441.58 | 55.064 | SF |
| ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo | 11,712.07 | 6,844.53 | 1,149.81 | 1,000.53 | 7.702 | CC, ES, SF |
| ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore # | 8,100.00 | 6,639.72 | 709.17 | 628.05 | 8.742 | SF |
| ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore # | 8,300.00 | 6,647.87 | 678.03 | 605.60 | 9.361 | ES |
| ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore # | 8,308.23 | 6,648.14 | 677.98 | 605.98 | 9.417 | CC |
| ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1 | 14,784.93 | 6,711.84 | 756.17 | 548.45 | 3.640 | CC |
| ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1 | 14,800.00 | 6,711.98 | 756.32 | 548.06 | 3.632 | ES, SF |
| ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1 | 13,515.83 | 6,685.42 | 655.63 | 349.80 | 2.144 | CC, ES, SF |
| ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore | 17,632.58 | 6,771.40 | 519.46 | 235.09 | 1.827 | CC, ES, SF |
| ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore | 18,103.37 | 6,836.56 | 3,512.10 | 3,223.64 | 12.176 | CC, ES, SF |
| ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig | 800.00 | 777.00 | 703.72 | 686.81 | 41.609 | CC, ES |
| ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig | 11,000.00 | 6,649.44 | 2,716.21 | 2,473.46 | 11.189 | SF |
| ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig | 800.00 | 789.00 | 1,867.84 | 1,850.65 | 108.691 | CC, ES |
| ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig | 12,300.00 | 6,671.23 | 2,775.04 | 2,501.44 | 10.142 | SF |
| ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design | 11,063.39 | 6,688.92 | 1,874.51 | 1,631.16 | 7.703 | CC |
| ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design | 11,100.00 | 6,689.19 | 1,874.87 | 1,631.00 | 7.688 | ES |
| ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design | 11,204.57 | 6,689.98 | 1,879.82 | 1,634.62 | 7.666 | SF |
| ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore | 16,346.29 | 6,711.71 | 913.64 | 665.51 | 3.682 | CC |
| ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore | 16,400.00 | 6,712.05 | 915.72 | 664.70 | 3.648 | ES, SF |
| ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design | 17,009.56 | 6,774.79 | 1,330.97 | 928.95 | 3.311 | CC, ES |
| ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design | 17,100.00 | 6,775.47 | 1,335.46 | 931.44 | 3.305 | SF |
| ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1 | 9,700.00 | 6,621.49 | 596.77 | 513.72 | 7.186 | SF |
| ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1 | 9,769.90 | 6,622.89 | 592.66 | 511.16 | 7.272 | CC, ES |
| ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design | 11,069.27 | 6,689.96 | 570.30 | 327.09 | 2.345 | CC, ES, SF |
| ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore | 0.00 | 0.00 | 1,060.06 | | | |
| ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore | 11,606.61 | 6,686.58 | 2,138.02 | 2,013.48 | 17.168 | SF |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1 | 16,192.96 | 6,724.64 | 3,386.88 | 3,008.19 | 8.944 | CC |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1 | 16,200.00 | 6,724.70 | 3,386.90 | 3,007.98 | 8.938 | ES |
| ABDN VERT PREBISH #1 - Wellbore #1 - Design #1 | 16,574.44 | 6,727.51 | 3,431.67 | 3,042.89 | 8.827 | SF |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1 | 17,671.69 | 6,767.12 | 2,161.82 | 1,875.82 | 7.559 | CC |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1 | 17,700.00 | 6,767.06 | 2,162.00 | 1,875.46 | 7.545 | 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 GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | 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) | | | | | | |
| ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1 | 17,800.00 | 6,766.84 | 2,165.62 | 1,877.62 | 7.519 | SF |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1 | 13,641.50 | 6,583.62 | 3,460.95 | 3,283.76 | 19.533 | CC |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1 | 13,700.00 | 6,584.05 | 3,461.44 | 3,282.57 | 19.352 | ES |
| ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1 | 14,500.00 | 6,589.57 | 3,565.83 | 3,369.73 | 18.184 | SF |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1 | 15,003.32 | 6,698.66 | 2,511.81 | 2,165.68 | 7.257 | CC |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1 | 15,100.00 | 6,699.39 | 2,513.67 | 2,164.81 | 7.205 | ES |
| ABDN VERT TODD #2 - Wellbore #1 - Design #1 | 15,300.00 | 6,700.90 | 2,529.27 | 2,175.87 | 7.157 | SF |
| ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1 | 17,671.42 | 6,787.78 | 1,853.40 | 1,433.24 | 4.411 | CC |
| ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1 | 17,700.00 | 6,787.99 | 1,853.62 | 1,432.45 | 4.401 | ES |
| ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1 | 17,800.00 | 6,788.74 | 1,857.85 | 1,433.78 | 4.381 | SF |
| ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1 | 18,103.37 | 6,771.33 | 1,221.38 | 1,026.86 | 6.279 | CC, ES, SF |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1 | 17,524.62 | 4,554.00 | 2,894.86 | 2,655.36 | 12.087 | CC |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1 | 17,600.00 | 4,554.00 | 2,895.84 | 2,654.66 | 12.007 | ES |
| ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1 | 18,103.37 | 4,554.00 | 2,952.11 | 2,701.04 | 11.758 | SF |
| EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb | 16,998.62 | 7,002.68 | 100.00 | -175.18 | 0.363 | Level 3, CC |
| EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb | 17,000.00 | 7,002.70 | 100.01 | -180.66 | 0.356 | Level 3, ES, SF |
| EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo | 10,305.10 | 6,696.18 | 1,265.12 | 1,159.91 | 12.024 | CC, ES, SF |
| EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo | 12,948.30 | 6,813.98 | 1,117.35 | 942.49 | 6.390 | CC, ES |
| EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo | 13,000.00 | 6,815.37 | 1,118.54 | 943.38 | 6.386 | SF |
| EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo | 14,335.38 | 6,832.53 | 1,073.06 | 860.55 | 5.049 | CC, ES |
| EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo | 14,400.00 | 6,832.58 | 1,075.01 | 861.26 | 5.029 | SF |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1 | 15,538.54 | 6,932.88 | 1,533.99 | 1,291.04 | 6.314 | CC |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1 | 15,600.00 | 6,932.73 | 1,535.22 | 1,290.59 | 6.276 | ES |
| EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1 | 15,700.00 | 6,932.49 | 1,542.47 | 1,295.85 | 6.255 | SF |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1 | 14,332.42 | 6,979.22 | 1,586.74 | 1,367.09 | 7.224 | CC |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1 | 14,400.00 | 6,978.92 | 1,588.18 | 1,365.72 | 7.139 | ES |
| EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1 | 14,600.00 | 6,978.04 | 1,609.14 | 1,380.82 | 7.048 | SF |
| EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore | 9,000.00 | 6,738.01 | 1,300.81 | 1,215.13 | 15.182 | SF |
| EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore | 9,100.00 | 6,738.97 | 1,296.69 | 1,211.50 | 15.221 | ES |
| EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore | 9,103.46 | 6,739.01 | 1,296.69 | 1,211.52 | 15.224 | CC |
| EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb | 13,079.09 | 7,322.76 | 15.99 | -47.11 | 0.253 | Level 3, CC, ES, SF |
| EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID | 17,800.00 | 7,897.18 | 475.22 | 376.20 | 4.799 | ES, SF |
| EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID | 17,801.21 | 7,897.22 | 475.22 | 376.23 | 4.801 | CC |
| EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT | 17,736.03 | 6,786.10 | 934.30 | 634.69 | 3.118 | CC |
| EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT | 17,800.00 | 6,786.25 | 936.49 | 634.69 | 3.103 | ES, SF |
| EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb | 12,971.04 | 10,884.00 | 1,736.52 | 1,564.43 | 10.091 | CC |
| EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb | 13,000.00 | 10,884.00 | 1,736.76 | 1,564.35 | 10.074 | ES |
| EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb | 13,500.00 | 10,884.00 | 1,815.29 | 1,629.71 | 9.781 | SF |
| EXIST VERT API #20-614 - Wellbore #1 - Design #1 | 16,219.77 | 6,735.85 | 2,058.18 | 1,678.71 | 5.424 | CC, ES |
| EXIST VERT API #20-614 - Wellbore #1 - Design #1 | 16,400.00 | 6,737.20 | 2,071.69 | 1,686.92 | 5.384 | SF |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1 | 17,819.57 | 6,769.89 | 3,333.86 | 2,909.94 | 7.864 | CC |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1 | 17,900.00 | 6,770.49 | 3,334.83 | 2,909.14 | 7.834 | ES |
| EXIST VERT API 20-414 - Wellbore #1 - Design #1 | 18,103.37 | 6,772.00 | 3,345.92 | 2,916.56 | 7.793 | SF |
| EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1 | 13,651.97 | 6,709.45 | 494.41 | 184.56 | 1.596 | CC, ES, SF |
| EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1 | 14,304.38 | 6,706.38 | 230.89 | -94.60 | 0.709 | Level 3, CC, ES, SF |
| EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1 | 15,116.62 | 6,729.51 | 566.50 | 216.89 | 1.620 | CC, ES, SF |
| EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore | 13,533.69 | 6,711.17 | 931.61 | 757.44 | 5.349 | CC, ES |
| EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore | 13,600.00 | 6,712.85 | 933.96 | 757.81 | 5.302 | SF |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1 | 6,365.46 | 5,231.42 | 1,976.85 | 1,800.69 | 11.222 | CC |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1 | 7,050.00 | 5,901.99 | 1,980.05 | 1,788.66 | 10.346 | ES |
| EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1 | 7,250.00 | 6,098.21 | 2,001.25 | 1,806.08 | 10.254 | SF |
| EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1 | 7,022.82 | 5,856.82 | 1,803.61 | 1,620.26 | 9.837 | CC |

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 GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | 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 | 7,050.00 | 5,883.99 | 1,804.08 | 1,620.18 | 9.810 | ES |
| EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1 | 7,150.00 | 5,983.33 | 1,813.95 | 1,628.15 | 9.763 | SF |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 6,164.80 | 5,047.15 | 1,053.90 | 982.81 | 14.826 | CC |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 6,200.00 | 5,076.97 | 1,054.05 | 982.65 | 14.764 | ES |
| EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore | 6,400.00 | 5,249.96 | 1,059.35 | 986.85 | 14.612 | SF |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1 | 5,060.66 | 4,161.26 | 3,706.78 | 3,568.90 | 26.885 | CC |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1 | 5,300.00 | 4,346.63 | 3,709.87 | 3,564.87 | 25.585 | ES |
| EXIST VERT CONRAD #1 - Wellbore #1 - Design #1 | 7,500.00 | 6,292.47 | 3,880.25 | 3,683.07 | 19.678 | SF |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig | 13,551.04 | 6,718.68 | 1,723.63 | 1,416.15 | 5.606 | CC |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig | 13,600.00 | 6,719.05 | 1,724.32 | 1,415.88 | 5.591 | ES |
| EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig | 13,700.00 | 6,719.81 | 1,730.05 | 1,420.07 | 5.581 | SF |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des | 7,022.82 | 5,868.82 | 1,729.13 | 1,578.56 | 11.484 | CC |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des | 7,050.00 | 5,895.99 | 1,729.62 | 1,578.48 | 11.444 | ES |
| EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des | 7,200.00 | 6,044.20 | 1,749.77 | 1,595.39 | 11.334 | SF |
| EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1 | 3,319.54 | 2,861.72 | 32.41 | -54.20 | 0.374 | Level 3, CC, ES, SF |
| EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore | 12,401.15 | 6,725.34 | 1,998.68 | 1,854.49 | 13.861 | CC, ES |
| EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore | 12,700.00 | 6,730.28 | 2,020.89 | 1,872.26 | 13.596 | SF |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig | 11,664.55 | 6,681.44 | 1,368.08 | 1,110.52 | 5.312 | CC |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig | 11,700.00 | 6,681.71 | 1,368.76 | 1,109.88 | 5.287 | ES |
| EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig | 11,800.00 | 6,682.46 | 1,377.72 | 1,115.59 | 5.256 | SF |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig | 1,419.29 | 1,398.18 | 790.77 | 759.05 | 24.930 | CC |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig | 1,500.00 | 1,470.47 | 791.58 | 757.77 | 23.415 | ES |
| EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig | 10,600.00 | 6,667.44 | 1,421.47 | 1,187.16 | 6.067 | SF |
| EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig | 10,303.79 | 6,666.22 | 106.64 | -109.73 | 0.493 | Level 3, CC, ES, SF |
| EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1 | 7,026.68 | 5,875.61 | 623.27 | 590.50 | 19.021 | CC, ES, SF |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 5,488.75 | 4,510.82 | 2,659.08 | 2,507.98 | 17.598 | CC |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 5,700.00 | 4,674.43 | 2,662.43 | 2,505.08 | 16.920 | ES |
| EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1 | 7,400.00 | 6,227.80 | 2,773.13 | 2,576.97 | 14.137 | SF |
| EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore | 6,889.96 | 5,716.57 | 921.80 | 874.20 | 19.367 | CC, ES |
| EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore | 6,900.00 | 5,727.12 | 921.83 | 874.22 | 19.362 | SF |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,450.00 | 6,292.12 | 1,395.51 | 1,211.91 | 7.601 | SF |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,500.00 | 6,332.47 | 1,395.18 | 1,211.77 | 7.607 | ES |
| EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1 | 7,501.02 | 6,333.27 | 1,395.18 | 1,211.78 | 7.607 | CC |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des | 7,022.82 | 5,874.82 | 2,507.48 | 2,365.04 | 17.604 | CC |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des | 7,050.00 | 5,901.99 | 2,507.82 | 2,364.82 | 17.537 | ES |
| EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des | 7,300.00 | 6,145.13 | 2,542.70 | 2,395.35 | 17.256 | SF |
| EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore | 17,704.10 | 6,728.52 | 762.38 | 475.92 | 2.661 | CC, ES, SF |
| EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design | 15,847.81 | 6,747.04 | 1,061.53 | 691.75 | 2.871 | CC, ES |
| EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design | 15,900.00 | 6,747.43 | 1,062.82 | 692.27 | 2.868 | SF |
| EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design | 14,997.36 | 6,751.61 | 1,834.34 | 1,487.34 | 5.286 | CC |
| EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design | 15,000.00 | 6,751.63 | 1,834.35 | 1,487.28 | 5.285 | ES |
| EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design | 15,100.00 | 6,752.39 | 1,837.21 | 1,488.16 | 5.263 | SF |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor | 3,847.30 | 3,275.84 | 2,774.77 | 2,736.68 | 72.856 | CC |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor | 3,900.00 | 3,300.00 | 2,775.04 | 2,736.20 | 71.452 | ES |
| EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor | 8,600.00 | 6,619.84 | 3,593.29 | 3,518.69 | 48.168 | SF |
| EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1 | 11,600.00 | 6,705.96 | 101.54 | -151.10 | 0.402 | Level 3, ES, SF |
| EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1 | 11,606.64 | 6,706.01 | 101.33 | -148.78 | 0.405 | Level 3, CC |
| EXIST VERT KLEIN #1 - Wellbore #1 - Design #1 | 12,352.00 | 6,709.63 | 556.96 | 281.23 | 2.020 | CC, ES, SF |
| EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1 | 12,359.77 | 6,685.68 | 787.33 | 511.77 | 2.857 | CC |
| EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1 | 12,400.00 | 6,685.99 | 788.36 | 511.23 | 2.845 | ES, SF |
| EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design | 7,022.82 | 5,880.82 | 2,082.55 | 1,909.81 | 12.056 | CC |
| EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design | 7,150.00 | 6,007.33 | 2,083.26 | 1,908.29 | 11.907 | 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 GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | 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 | 7,400.00 | 6,240.80 | 2,090.69 | 1,913.44 | 11.795 | SF |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1 | 12,295.84 | 6,663.12 | 2,001.36 | 1,859.72 | 14.130 | CC |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1 | 12,400.00 | 6,663.87 | 2,004.07 | 1,859.28 | 13.841 | ES |
| EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1 | 12,700.00 | 6,666.03 | 2,041.76 | 1,890.23 | 13.474 | SF |
| EXIST VERT LEONARD #3 - Wellbore #1 - Design #1 | 11,056.45 | 6,694.86 | 764.14 | 520.99 | 3.143 | CC |
| EXIST VERT LEONARD #3 - Wellbore #1 - Design #1 | 11,100.00 | 6,695.19 | 765.38 | 520.24 | 3.122 | ES, SF |
| EXIST VERT LEONARD #4 - Wellbore #1 - Design #1 | 1,536.42 | 1,478.41 | 253.04 | 218.74 | 7.377 | CC, ES |
| EXIST VERT LEONARD #4 - Wellbore #1 - Design #1 | 1,700.00 | 1,615.94 | 268.04 | 229.48 | 6.952 | SF |
| EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1 | 9,711.88 | 6,644.77 | 763.63 | 551.50 | 3.600 | CC, ES |
| EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1 | 9,800.00 | 6,645.44 | 768.69 | 552.04 | 3.548 | SF |
| EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor | 8,800.00 | 6,634.60 | 218.96 | 142.61 | 2.868 | SF |
| EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor | 8,900.00 | 6,635.25 | 191.60 | 126.85 | 2.959 | ES |
| EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor | 8,906.17 | 6,635.29 | 191.50 | 127.98 | 3.015 | CC |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1 | 14,383.87 | 6,677.98 | 2,908.57 | 2,579.56 | 8.840 | CC |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1 | 14,500.00 | 6,678.85 | 2,910.89 | 2,578.60 | 8.760 | ES |
| EXIST VERT LONG C20-17 - Wellbore #1 - Design #1 | 14,800.00 | 6,681.12 | 2,938.19 | 2,599.00 | 8.662 | SF |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1 | 15,485.63 | 6,712.30 | 2,945.61 | 2,586.15 | 8.195 | CC |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1 | 15,600.00 | 6,713.17 | 2,947.83 | 2,585.19 | 8.129 | ES |
| EXIST VERT LONG C20-18 - Wellbore #1 - Design #1 | 15,900.00 | 6,715.43 | 2,974.61 | 2,605.41 | 8.057 | SF |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1 | 4,706.84 | 3,884.41 | 1,830.59 | 1,779.80 | 36.037 | CC |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1 | 4,800.00 | 3,958.67 | 1,831.48 | 1,779.34 | 35.126 | ES |
| EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1 | 5,800.00 | 4,743.47 | 1,949.28 | 1,886.57 | 31.084 | SF |
| EXIST VERT NIX #1 - Wellbore #1 - Design #1 | 8,200.00 | 6,603.43 | 2,023.40 | 1,828.04 | 10.357 | SF |
| EXIST VERT NIX #1 - Wellbore #1 - Design #1 | 8,468.57 | 6,605.44 | 2,005.50 | 1,812.87 | 10.411 | CC, ES |
| EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1 | 9,737.92 | 6,648.97 | 1,877.57 | 1,664.52 | 8.813 | CC, ES |
| EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1 | 9,800.00 | 6,649.44 | 1,878.60 | 1,665.20 | 8.803 | SF |
| EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1 | 18,103.37 | 6,793.00 | 2,181.16 | 1,765.66 | 5.249 | CC, ES, SF |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore | 16,505.54 | 6,736.01 | 2,861.44 | 2,610.15 | 11.387 | CC |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore | 17,000.00 | 6,732.85 | 2,872.50 | 2,605.13 | 10.744 | ES |
| EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore | 17,400.00 | 6,730.85 | 2,895.14 | 2,620.86 | 10.555 | SF |
| EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1 | 4,703.01 | 4,091.74 | 172.48 | 121.80 | 3.403 | CC, ES, SF |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1 | 14,802.13 | 6,694.14 | 3,162.72 | 2,822.13 | 9.286 | CC |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1 | 14,900.00 | 6,694.88 | 3,164.23 | 2,820.88 | 9.216 | ES |
| EXIST VERT TODD #20-2 - Wellbore #1 - Design #1 | 15,300.00 | 6,697.90 | 3,201.66 | 2,849.25 | 9.085 | SF |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1 | 13,748.36 | 6,684.18 | 1,992.38 | 1,680.29 | 6.384 | CC |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1 | 13,800.00 | 6,684.57 | 1,993.05 | 1,679.40 | 6.354 | ES |
| EXIST VERT TODD 20-8 - Wellbore #1 - Design #1 | 14,000.00 | 6,686.08 | 2,008.21 | 1,689.75 | 6.306 | SF |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo | 2,372.76 | 2,104.16 | 1,092.05 | 1,075.26 | 65.038 | CC |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo | 2,400.00 | 2,127.36 | 1,092.17 | 1,074.99 | 63.571 | ES |
| EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo | 9,900.00 | 6,582.14 | 2,716.45 | 2,627.19 | 30.432 | SF |
| EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1 | 18,103.37 | 6,806.00 | 1,004.13 | 726.09 | 3.611 | CC, ES, SF |
| GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL # | 709.74 | 711.92 | 266.27 | 263.15 | 85.333 | CC, ES |
| GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,121.45 | 3,946.02 | 3,356.26 | 6.691 | SF |
| GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL # | 818.94 | 824.52 | 248.13 | 244.52 | 68.803 | CC, ES |
| GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,000.00 | 3,724.80 | 3,134.25 | 6.307 | SF |
| GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL | 846.19 | 854.43 | 233.21 | 229.60 | 64.556 | CC, ES |
| GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL | 18,103.37 | 17,952.53 | 3,505.53 | 2,914.64 | 5.933 | SF |
| GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL # | 864.35 | 874.88 | 219.82 | 216.19 | 60.627 | CC, ES |
| GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,988.98 | 3,211.25 | 2,620.03 | 5.432 | SF |
| GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL # | 845.92 | 852.64 | 208.32 | 204.80 | 59.185 | CC, ES |
| GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,909.84 | 3,067.74 | 2,475.34 | 5.179 | SF |
| GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL # | 800.63 | 801.71 | 194.96 | 191.64 | 58.639 | CC, 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 GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | 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 06N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,950.05 | 2,850.77 | 2,258.45 | 4.813 | SF |
| GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL | 800.00 | 801.00 | 179.93 | 176.61 | 54.163 | CC, ES |
| GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL | 18,103.37 | 17,841.50 | 2,629.15 | 2,034.99 | 4.425 | SF |
| GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 801.00 | 164.99 | 161.67 | 49.666 | CC, ES |
| GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,878.45 | 2,410.47 | 1,816.18 | 4.056 | SF |
| GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 149.96 | 146.64 | 45.112 | CC, ES |
| GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,050.99 | 2,193.72 | 1,596.92 | 3.676 | SF |
| GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 134.96 | 131.64 | 40.599 | CC, ES |
| GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,973.12 | 1,972.38 | 1,375.11 | 3.302 | SF |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 0.00 | 2.00 | 119.96 | | | |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 119.96 | 116.64 | 36.087 | ES |
| GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,000.53 | 1,756.54 | 1,161.13 | 2.950 | SF |
| GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 104.96 | 101.63 | 31.573 | CC, ES |
| GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,953.18 | 1,534.33 | 938.29 | 2.574 | SF |
| GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 89.96 | 86.63 | 27.060 | CC, ES |
| GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,999.44 | 1,319.60 | 727.07 | 2.227 | SF |
| GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 802.00 | 74.93 | 71.60 | 22.539 | CC, ES |
| GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 17,957.14 | 1,097.41 | 503.34 | 1.847 | SF |
| GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL | 800.00 | 801.00 | 59.97 | 56.65 | 18.053 | CC, ES |
| GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL | 18,103.37 | 17,951.74 | 876.40 | 281.61 | 1.473 | Level 3, SF |
| GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 801.00 | 44.97 | 41.65 | 13.537 | CC, ES |
| GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,027.83 | 666.39 | 110.03 | 1.198 | Level 3, SF |
| GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 801.00 | 30.01 | 26.69 | 9.034 | CC |
| GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL # | 18,100.00 | 18,040.35 | 440.69 | -108.28 | 0.803 | Level 3, ES, SF |
| GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL # | 800.00 | 801.00 | 15.00 | 11.68 | 4.516 | CC |
| GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,144.05 | 247.44 | -76.48 | 0.764 | Level 3, ES, SF |
| GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL # | 700.00 | 700.00 | 15.03 | 12.16 | 5.236 | CC |
| GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,255.57 | 245.15 | -76.39 | 0.762 | Level 3, ES, SF |
| GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL # | 600.00 | 600.00 | 29.99 | 27.56 | 12.387 | CC |
| GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL # | 17,100.00 | 17,246.85 | 380.89 | -87.85 | 0.813 | Level 3, SF |
| GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL # | 18,100.00 | 18,245.01 | 440.28 | -89.13 | 0.832 | Level 3, ES |
| GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL # | 500.00 | 499.00 | 45.02 | 43.05 | 22.867 | CC, ES |
| GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,305.15 | 658.49 | 75.21 | 1.129 | Level 3, SF |
| GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL # | 400.00 | 399.00 | 59.98 | 58.46 | 39.476 | CC, ES |
| GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,431.65 | 883.24 | 305.67 | 1.529 | SF |
| GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL # | 300.00 | 298.00 | 74.96 | 73.90 | 70.214 | CC, ES |
| GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL # | 18,103.37 | 18,464.66 | 1,096.19 | 508.56 | 1.865 | 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 GEORGE 19NA |
| Project: | WELD COUNTY, COLORADO (TRUE) | TVD Reference: | KB 23ft @ 4741.00usft |
| Reference Site: | SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) | MD Reference: | KB 23ft @ 4741.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | GEORGE 19NA | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | ORIGINAL WELLBORE | Database: | Database 1 |
| Reference Design: | PROPOSAL #1 | Offset TVD Reference: | 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 | 811.12 | 787.45 | 2,521.22 | 2,519.08 | 1,175.621 | CC, ES |
| ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo | 13,200.00 | 6,650.01 | 3,533.62 | 3,373.49 | 22.067 | SF |
| ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1 | 800.00 | 788.00 | 1,485.06 | 1,467.88 | 86.467 | CC, ES |
| ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1 | 11,700.00 | 6,665.71 | 3,151.69 | 2,892.41 | 12.155 | SF |
| DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1 | 7,900.00 | 18,757.30 | 4,402.82 | 4,042.43 | 12.217 | ES, SF |
| DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1 | 11,607.82 | 15,064.30 | 4,386.66 | 4,062.69 | 13.540 | CC |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1 | 7,900.00 | 18,931.07 | 4,257.19 | 3,894.29 | 11.731 | SF |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1 | 11,607.86 | 15,234.94 | 4,166.50 | 3,839.66 | 12.748 | CC |
| DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1 | 18,103.37 | 8,744.67 | 4,177.45 | 3,835.03 | 12.200 | ES |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore # | 100.00 | 58.71 | 2,046.53 | 2,046.37 | 10,000.000 | CC |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore # | 200.00 | 154.96 | 2,046.73 | 2,046.24 | 4,203.392 | ES |
| EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore # | 10,100.00 | 6,715.87 | 4,596.44 | 4,492.14 | 44.070 | SF |
| EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo | 7,771.54 | 10,530.79 | 182.79 | 126.00 | 3.218 | CC |
| EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo | 7,800.00 | 10,530.95 | 185.56 | 121.28 | 2.887 | ES |
| EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo | 7,900.00 | 10,531.60 | 232.53 | 134.78 | 2.379 | SF |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig | 800.00 | 770.00 | 1,286.98 | 1,270.24 | 76.874 | CC |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig | 900.00 | 869.92 | 1,288.62 | 1,269.66 | 67.963 | ES |
| EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig | 10,700.00 | 6,640.19 | 3,501.38 | 3,265.48 | 14.843 | SF |
| EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We | 827.86 | 779.51 | 2,406.61 | 2,404.32 | 1,051.165 | CC, ES |
| EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We | 11,500.00 | 6,601.62 | 4,879.44 | 4,764.88 | 42.593 | SF |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1 | 1,879.56 | 1,710.42 | 1,981.94 | 1,972.00 | 199.285 | CC |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1 | 1,900.00 | 1,725.34 | 1,981.99 | 1,971.76 | 193.757 | ES |
| EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1 | 10,200.00 | 6,588.25 | 3,767.49 | 3,674.15 | 40.365 | 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 |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Distance | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | 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) | |
| 0.00 | 0.00 | 37.82 | 37.82 | 0.00 | 0.04 | -117.92 | -3,150.45 | -5,944.81 | 6,728.01 | | | |
| 100.00 | 100.00 | 137.36 | 137.36 | 0.09 | 0.15 | -117.92 | -3,150.49 | -5,944.80 | 6,728.02 | 6,727.78 | 0.24 | N/A |
| 200.00 | 200.00 | 1,503.00 | 1,483.39 | 0.31 | 4.30 | -116.82 | -2,979.23 | -5,893.53 | 6,720.16 | 6,715.89 | 4.27 | 1,575.568 |
| 300.00 | 300.00 | 1,589.00 | 1,566.12 | 0.54 | 4.72 | -116.66 | -2,956.49 | -5,887.64 | 6,701.75 | 6,696.99 | 4.76 | 1,406.965 |
| 400.00 | 400.00 | 1,657.10 | 1,631.74 | 0.76 | 5.03 | -116.54 | -2,938.82 | -5,883.10 | 6,683.75 | 6,678.55 | 5.20 | 1,285.101 |
| 500.00 | 500.00 | 1,783.45 | 1,753.58 | 0.99 | 5.62 | -116.33 | -2,906.65 | -5,873.92 | 6,665.52 | 6,659.62 | 5.90 | 1,130.234 |
| 600.00 | 600.00 | 1,845.00 | 1,812.91 | 1.21 | 5.93 | -116.22 | -2,890.85 | -5,869.77 | 6,647.68 | 6,641.32 | 6.36 | 1,045.940 |
| 700.00 | 700.00 | 1,902.88 | 1,868.76 | 1.44 | 6.20 | -116.12 | -2,876.03 | -5,866.20 | 6,630.42 | 6,623.62 | 6.80 | 974.878 |
| 800.00 | 800.00 | 2,113.75 | 2,072.49 | 1.66 | 7.21 | -115.76 | -2,823.82 | -5,851.18 | 6,613.18 | 6,605.33 | 7.86 | 841.764 |
| 900.00 | 899.92 | 2,214.74 | 2,169.85 | 1.87 | 7.73 | 115.40 | -2,798.25 | -5,843.05 | 6,596.06 | 6,587.59 | 8.47 | 778.761 |
| 1,000.00 | 999.35 | 2,316.57 | 2,267.75 | 2.07 | 8.26 | 116.19 | -2,771.38 | -5,835.10 | 6,581.72 | 6,572.62 | 9.10 | 723.437 |
| 1,100.00 | 1,097.81 | 2,396.05 | 2,344.20 | 2.32 | 8.67 | 116.83 | -2,750.53 | -5,828.96 | 6,570.72 | 6,561.04 | 9.68 | 678.658 |
| 1,200.00 | 1,194.82 | 2,482.79 | 2,427.57 | 2.67 | 9.12 | 117.42 | -2,727.42 | -5,822.60 | 6,563.24 | 6,552.86 | 10.39 | 631.960 |
| 1,300.00 | 1,289.91 | 2,652.13 | 2,590.06 | 3.14 | 10.02 | 118.28 | -2,681.74 | -5,809.08 | 6,558.54 | 6,546.97 | 11.57 | 567.000 |
| 1,379.65 | 1,363.96 | 2,700.00 | 2,635.90 | 3.64 | 10.28 | 118.55 | -2,668.46 | -5,805.29 | 6,557.27 | 6,545.03 | 12.24 | 535.523 |
| 1,400.00 | 1,382.61 | 2,717.19 | 2,652.35 | 3.77 | 10.37 | 118.63 | -2,663.65 | -5,803.97 | 6,557.36 | 6,544.92 | 12.44 | 526.945 |
| 1,500.00 | 1,472.47 | 2,822.73 | 2,753.16 | 4.55 | 10.96 | 119.09 | -2,633.52 | -5,795.75 | 6,559.78 | 6,546.13 | 13.65 | 480.473 |
| 1,600.00 | 1,559.05 | 2,890.34 | 2,817.78 | 5.50 | 11.33 | 119.24 | -2,614.38 | -5,790.43 | 6,566.23 | 6,551.40 | 14.83 | 442.655 |
| 1,700.00 | 1,641.94 | 2,957.00 | 2,881.49 | 6.62 | 11.69 | 119.27 | -2,595.46 | -5,785.21 | 6,576.75 | 6,560.59 | 16.15 | 407.173 |
| 1,780.96 | 1,706.06 | 2,957.00 | 2,881.49 | 7.65 | 11.69 | 118.85 | -2,595.46 | -5,785.21 | 6,588.58 | 6,571.50 | 17.08 | 385.694 |

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