



# **Whiting Petroleum Corp.**

**Weld County, CO**

**Sec 25-T10N-R58W**

**Razor #25O-2412**

**Hz**

**APD**

## **Anticollision Report**

**22 May, 2015**



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | Hz                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Reference                    | APD   |                |                     |
|------------------------------|---|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | MD Interval 100.00usft  | Error Model:   | ISCWSA              |
| Depth Range:                 | Unlimited   | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum center-center distance of 1,550.00 usft                     | Error Surface: | Elliptical Conic    |
| Warning Levels Evaluated at: | 3.00 Sigma  | Casing Method: | Not applied         |

| Survey Tool Program |              | Date              | 5/22/2015 |                |  |
|---------------------|--------------|-------------------|-----------|----------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name | Description    |  |
| 0.00                | 15,752.28    | APD (Hz)          | MWD       | MWD - Standard |  |

| Summary                         |                                 |                              |                                 |                                  |                   |                 |
|---------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------------|
| Site Name                       | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning         |
| Offset Well - Wellbore - Design |                                 |                              |                                 |                                  |                   |                 |
| Sec 25-T10N-R58W                |                                 |                              |                                 |                                  |                   |                 |
| Razor #25O-2410 - Hz - APD      | 300.00                          | 300.00                       | 59.98                           | 58.37                            | 37.144            | CC, ES          |
| Razor #25O-2410 - Hz - APD      | 15,752.28                       | 15,801.18                    | 659.57                          | 205.54                           | 1.453             | Level 3, SF     |
| Razor #25O-2411 - Hz - APD      | 300.00                          | 300.00                       | 29.99                           | 28.38                            | 18.572            | CC              |
| Razor #25O-2411 - Hz - APD      | 15,752.28                       | 15,657.65                    | 338.20                          | -104.29                          | 0.764             | Level 1, ES, SF |
| Razor #25O-2443 - Hz - APD      | 300.00                          | 300.00                       | 77.89                           | 76.28                            | 48.232            | CC              |
| Razor #25O-2443 - Hz - APD      | 15,752.28                       | 15,874.95                    | 510.35                          | 66.33                            | 1.149             | Level 2, ES, SF |
| Razor #25O-2444 - Hz - APD      | 300.00                          | 300.00                       | 57.56                           | 55.95                            | 35.642            | CC              |
| Razor #25O-2444 - Hz - APD      | 15,752.28                       | 16,004.19                    | 280.34                          | -25.36                           | 0.917             | Level 1, ES, SF |

| Offset Design         |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Sec 25-T10N-R58W - Razor #25O-2410 - Hz - APD |         | Offset Site Error: | 0.00 usft |
|-----------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---|---------|--------------------|-----------|
| Survey Program:       |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | 0-MWD+IFR1+MS+sag                             |         | Offset Well Error: | 0.00 usft |
| Reference             |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |   |         |                    |           |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor                             | Warning |                    |           |
| 0.00                  | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -90.00                | 0.00                                | -59.98       | 59.98                  |                         |                           |   |         |                    |           |
| 100.00                | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -90.00                | 0.00                                | -59.98       | 59.98                  | 59.72                   | 0.27                      | 225.212                                       |         |                    |           |
| 200.00                | 200.00                | 200.00                | 200.00                | 0.47             | 0.47          | -90.00                | 0.00                                | -59.98       | 59.98                  | 59.04                   | 0.94                      | 63.770  |         |                    |           |
| 300.00                | 300.00                | 300.00                | 300.00                | 0.81             | 0.81          | -90.00                | 0.00                                | -59.98       | 59.98                  | 58.37                   | 1.61                      | 37.144  | CC, ES  |                    |           |
| 400.00                | 399.98                | 398.35                | 398.33                | 1.12             | 1.11          | 144.88                | -1.08                               | -61.28       | 62.73                  | 60.49                   | 2.23                      | 28.076  |         |                    |           |
| 500.00                | 499.84                | 496.25                | 496.10                | 1.43             | 1.41          | 144.56                | -4.32                               | -65.13       | 70.95                  | 68.09                   | 2.86                      | 24.806  |         |                    |           |
| 600.00                | 599.49                | 593.34                | 592.82                | 1.78             | 1.73          | 144.05                | -9.64                               | -71.48       | 84.25                  | 80.72                   | 3.52                      | 23.915  |         |                    |           |
| 700.00                | 699.11                | 692.02                | 690.97                | 2.17             | 2.06          | 143.19                | -16.27                              | -79.38       | 99.38                  | 95.18                   | 4.20                      | 23.673  |         |                    |           |
| 800.00                | 798.73                | 790.86                | 789.27                | 2.56             | 2.41          | 142.55                | -22.91                              | -87.29       | 114.54                 | 109.65                  | 4.88                      | 23.461  |         |                    |           |
| 900.00                | 898.35                | 889.70                | 887.56                | 2.96             | 2.76          | 142.06                | -29.55                              | -95.20       | 129.70                 | 124.12                  | 5.58                      | 23.249  |         |                    |           |
| 1,000.00              | 997.97                | 988.54                | 985.86                | 3.37             | 3.12          | 141.68                | -36.19                              | -103.12      | 144.87                 | 138.59                  | 6.28                      | 23.051  |         |                    |           |
| 1,100.00              | 1,097.59              | 1,087.37              | 1,084.16              | 3.78             | 3.48          | 141.36                | -42.83                              | -111.03      | 160.05                 | 153.06                  | 7.00                      | 22.872  |         |                    |           |
| 1,200.00              | 1,197.21              | 1,186.21              | 1,182.45              | 4.19             | 3.85          | 141.11                | -49.47                              | -118.95      | 175.24                 | 167.52                  | 7.72                      | 22.713  |         |                    |           |
| 1,300.00              | 1,296.83              | 1,285.05              | 1,280.75              | 4.61             | 4.21          | 140.89                | -56.12                              | -126.86      | 190.42                 | 181.98                  | 8.44                      | 22.572  |         |                    |           |
| 1,400.00              | 1,396.45              | 1,383.89              | 1,379.05              | 5.03             | 4.58          | 140.70                | -62.76                              | -134.78      | 205.61                 | 196.45                  | 9.16                      | 22.447  |         |                    |           |
| 1,500.00              | 1,496.07              | 1,482.73              | 1,477.34              | 5.44             | 4.95          | 140.54                | -69.40                              | -142.69      | 220.80                 | 210.91                  | 9.89                      | 22.334  |         |                    |           |
| 1,600.00              | 1,595.69              | 1,581.56              | 1,575.64              | 5.86             | 5.32          | 140.40                | -76.04                              | -150.60      | 235.99                 | 225.37                  | 10.61                     | 22.234  |         |                    |           |
| 1,700.00              | 1,695.31              | 1,680.40              | 1,673.93              | 6.28             | 5.68          | 140.28                | -82.68                              | -158.52      | 251.18                 | 239.84                  | 11.34                     | 22.145  |         |                    |           |
| 1,800.00              | 1,794.93              | 1,779.24              | 1,772.23              | 6.70             | 6.05          | 140.17                | -89.32                              | -166.43      | 266.37                 | 254.30                  | 12.07                     | 22.064  |         |                    |           |
| 1,900.00              | 1,894.55              | 1,878.08              | 1,870.53              | 7.12             | 6.42          | 140.07                | -95.96                              | -174.35      | 281.57                 | 268.76                  | 12.80                     | 21.991  |         |                    |           |

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



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| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 2,000.00                          | 1,994.17              | 1,976.92              | 1,968.82              | 7.54             | 6.79          | 139.99                | -102.60                             | -182.26      | 296.76                 | 283.23                  | 13.54                     | 21.924            |                    |           |
| 2,100.00                          | 2,093.78              | 2,075.75              | 2,067.12              | 7.96             | 7.16          | 139.91                | -109.24                             | -190.18      | 311.96                 | 297.69                  | 14.27                     | 21.864            |                    |           |
| 2,200.00                          | 2,193.40              | 2,174.59              | 2,165.42              | 8.38             | 7.53          | 139.84                | -115.88                             | -198.09      | 327.15                 | 312.15                  | 15.00                     | 21.808            |                    |           |
| 2,300.00                          | 2,293.02              | 2,273.43              | 2,263.71              | 8.80             | 7.90          | 139.77                | -122.52                             | -206.00      | 342.35                 | 326.61                  | 15.74                     | 21.757            |                    |           |
| 2,400.00                          | 2,392.64              | 2,372.27              | 2,362.01              | 9.22             | 8.28          | 139.71                | -129.17                             | -213.92      | 357.54                 | 341.07                  | 16.47                     | 21.710            |                    |           |
| 2,500.00                          | 2,492.26              | 2,471.11              | 2,460.31              | 9.64             | 8.65          | 139.66                | -135.81                             | -221.83      | 372.74                 | 355.54                  | 17.20                     | 21.666            |                    |           |
| 2,600.00                          | 2,591.88              | 2,569.94              | 2,558.60              | 10.07            | 9.02          | 139.61                | -142.45                             | -229.75      | 387.94                 | 370.00                  | 17.94                     | 21.626            |                    |           |
| 2,700.00                          | 2,691.50              | 2,668.78              | 2,656.90              | 10.49            | 9.39          | 139.56                | -149.09                             | -237.66      | 403.13                 | 384.46                  | 18.67                     | 21.588            |                    |           |
| 2,800.00                          | 2,791.12              | 2,767.62              | 2,755.20              | 10.91            | 9.76          | 139.52                | -155.73                             | -245.58      | 418.33                 | 398.92                  | 19.41                     | 21.553            |                    |           |
| 2,900.00                          | 2,890.74              | 2,866.46              | 2,853.49              | 11.33            | 10.13         | 139.48                | -162.37                             | -253.49      | 433.53                 | 413.39                  | 20.15                     | 21.520            |                    |           |
| 3,000.00                          | 2,990.36              | 2,965.29              | 2,951.79              | 11.75            | 10.50         | 139.44                | -169.01                             | -261.40      | 448.73                 | 427.85                  | 20.88                     | 21.490            |                    |           |
| 3,100.00                          | 3,089.98              | 3,064.13              | 3,050.09              | 12.18            | 10.87         | 139.41                | -175.65                             | -269.32      | 463.93                 | 442.31                  | 21.62                     | 21.461            |                    |           |
| 3,200.00                          | 3,189.60              | 3,162.97              | 3,148.38              | 12.60            | 11.25         | 139.37                | -182.29                             | -277.23      | 479.12                 | 456.77                  | 22.35                     | 21.434            |                    |           |
| 3,300.00                          | 3,289.22              | 3,261.81              | 3,246.68              | 13.02            | 11.62         | 139.34                | -188.93                             | -285.15      | 494.32                 | 471.23                  | 23.09                     | 21.408            |                    |           |
| 3,400.00                          | 3,388.84              | 3,360.65              | 3,344.98              | 13.44            | 11.99         | 139.32                | -195.57                             | -293.06      | 509.52                 | 485.69                  | 23.83                     | 21.384            |                    |           |
| 3,500.00                          | 3,488.46              | 3,459.48              | 3,443.27              | 13.86            | 12.36         | 139.29                | -202.21                             | -300.98      | 524.72                 | 500.16                  | 24.56                     | 21.361            |                    |           |
| 3,600.00                          | 3,588.08              | 3,558.32              | 3,541.57              | 14.29            | 12.73         | 139.26                | -208.86                             | -308.89      | 539.92                 | 514.62                  | 25.30                     | 21.340            |                    |           |
| 3,700.00                          | 3,687.70              | 3,657.16              | 3,639.86              | 14.71            | 13.10         | 139.24                | -215.50                             | -316.80      | 555.12                 | 529.08                  | 26.04                     | 21.319            |                    |           |
| 3,800.00                          | 3,787.32              | 3,756.00              | 3,738.16              | 15.13            | 13.48         | 139.22                | -222.14                             | -324.72      | 570.32                 | 543.54                  | 26.78                     | 21.300            |                    |           |
| 3,900.00                          | 3,886.94              | 3,854.84              | 3,836.46              | 15.55            | 13.85         | 139.19                | -228.78                             | -332.63      | 585.52                 | 558.00                  | 27.51                     | 21.282            |                    |           |
| 4,000.00                          | 3,986.55              | 3,953.67              | 3,934.75              | 15.98            | 14.22         | 139.17                | -235.42                             | -340.55      | 600.72                 | 572.47                  | 28.25                     | 21.264            |                    |           |
| 4,100.00                          | 4,086.17              | 4,052.51              | 4,033.05              | 16.40            | 14.59         | 139.15                | -242.06                             | -348.46      | 615.91                 | 586.93                  | 28.99                     | 21.247            |                    |           |
| 4,200.00                          | 4,185.79              | 4,164.97              | 4,144.98              | 16.82            | 14.93         | 139.18                | -248.99                             | -356.72      | 630.45                 | 600.75                  | 29.70                     | 21.227            |                    |           |
| 4,300.00                          | 4,285.41              | 4,266.54              | 4,266.35              | 17.25            | 15.23         | 139.45                | -253.47                             | -362.05      | 641.78                 | 611.40                  | 30.39                     | 21.122            |                    |           |
| 4,400.00                          | 4,385.03              | 4,405.25              | 4,385.03              | 17.67            | 15.55         | 139.95                | -254.67                             | -363.49      | 649.70                 | 618.61                  | 31.09                     | 20.900            |                    |           |
| 4,500.00                          | 4,484.69              | 4,504.90              | 4,484.69              | 18.06            | 15.80         | 140.46                | -254.67                             | -363.49      | 656.07                 | 624.39                  | 31.67                     | 20.714            |                    |           |
| 4,600.00                          | 4,584.55              | 4,604.76              | 4,584.55              | 18.32            | 16.06         | 140.80                | -254.67                             | -363.49      | 660.11                 | 627.97                  | 32.14                     | 20.537            |                    |           |
| 4,700.00                          | 4,684.52              | 4,704.74              | 4,684.52              | 18.58            | 16.32         | -94.09                | -254.67                             | -363.49      | 661.47                 | 628.79                  | 32.68                     | 20.240            |                    |           |
| 4,800.00                          | 4,784.53              | 4,804.74              | 4,784.53              | 18.82            | 16.59         | -94.09                | -254.67                             | -363.49      | 661.47                 | 628.25                  | 33.22                     | 19.911            |                    |           |
| 4,900.00                          | 4,884.53              | 4,904.74              | 4,884.53              | 19.06            | 16.86         | -94.09                | -254.67                             | -363.49      | 661.47                 | 627.72                  | 33.75                     | 19.601            |                    |           |
| 5,000.00                          | 4,984.53              | 5,004.74              | 4,984.53              | 19.30            | 17.13         | -94.09                | -254.67                             | -363.49      | 661.47                 | 627.19                  | 34.28                     | 19.297            |                    |           |
| 5,099.99                          | 5,084.51              | 5,104.77              | 5,084.55              | 19.54            | 17.40         | -94.09                | -254.67                             | -363.49      | 661.47                 | 626.65                  | 34.81                     | 19.000            |                    |           |
| 5,200.00                          | 5,183.90              | 5,214.67              | 5,193.63              | 19.73            | 17.68         | -94.01                | -243.03                             | -363.48      | 661.40                 | 626.12                  | 35.28                     | 18.747            |                    |           |
| 5,300.00                          | 5,279.62              | 5,324.09              | 5,297.41              | 19.81            | 17.93         | -93.76                | -209.00                             | -363.48      | 661.21                 | 625.62                  | 35.58                     | 18.581            |                    |           |
| 5,400.00                          | 5,368.15              | 5,432.59              | 5,391.08              | 19.82            | 18.13         | -93.37                | -154.62                             | -363.48      | 660.92                 | 625.08                  | 35.84                     | 18.439            |                    |           |
| 5,500.00                          | 5,446.24              | 5,539.82              | 5,470.62              | 19.80            | 18.28         | -92.84                | -82.99                              | -363.47      | 660.59                 | 624.43                  | 36.16                     | 18.270            |                    |           |
| 5,600.00                          | 5,511.03              | 5,645.49              | 5,533.05              | 19.76            | 18.40         | -92.21                | 2.05                                | -363.47      | 660.27                 | 623.59                  | 36.68                     | 18.001            |                    |           |
| 5,700.00                          | 5,560.13              | 5,749.45              | 5,576.51              | 19.76            | 18.48         | -91.50                | 96.29                               | -363.46      | 660.00                 | 622.47                  | 37.53                     | 17.585            |                    |           |
| 5,800.00                          | 5,591.74              | 5,851.60              | 5,600.18              | 20.35            | 18.61         | -90.74                | 195.50                              | -363.46      | 659.82                 | 621.04                  | 38.78                     | 17.013            |                    |           |
| 5,900.00                          | 5,604.70              | 5,951.98              | 5,605.00              | 21.61            | 18.96         | -90.03                | 295.66                              | -363.45      | 659.77                 | 619.34                  | 40.42                     | 16.321            |                    |           |
| 6,000.00                          | 5,605.00              | 6,051.98              | 5,605.00              | 23.15            | 19.47         | -90.00                | 395.65                              | -363.44      | 659.77                 | 617.28                  | 42.49                     | 15.528            |                    |           |
| 6,100.00                          | 5,605.00              | 6,151.98              | 5,605.00              | 24.91            | 20.07         | -90.00                | 495.65                              | -363.44      | 659.76                 | 614.87                  | 44.90                     | 14.695            |                    |           |
| 6,200.00                          | 5,605.00              | 6,251.98              | 5,605.00              | 26.86            | 20.76         | -90.00                | 595.65                              | -363.43      | 659.76                 | 612.17                  | 47.59                     | 13.862            |                    |           |
| 6,300.00                          | 5,605.00              | 6,351.98              | 5,605.00              | 28.95            | 21.53         | -90.00                | 695.65                              | -363.43      | 659.76                 | 609.23                  | 50.53                     | 13.057            |                    |           |
| 6,400.00                          | 5,605.00              | 6,451.98              | 5,605.00              | 31.17            | 22.37         | -90.00                | 795.65                              | -363.42      | 659.76                 | 606.09                  | 53.66                     | 12.294            |                    |           |
| 6,500.00                          | 5,605.00              | 6,551.98              | 5,605.00              | 33.49            | 23.27         | -90.00                | 895.65                              | -363.41      | 659.76                 | 602.79                  | 56.96                     | 11.582            |                    |           |
| 6,600.00                          | 5,605.00              | 6,651.98              | 5,605.00              | 35.88            | 24.22         | -90.00                | 995.65                              | -363.41      | 659.75                 | 599.35                  | 60.40                     | 10.923            |                    |           |
| 6,700.00                          | 5,605.00              | 6,751.98              | 5,605.00              | 38.34            | 25.22         | -90.00                | 1,095.65                            | -363.40      | 659.75                 | 595.80                  | 63.95                     | 10.316            |                    |           |
| 6,800.00                          | 5,605.00              | 6,851.98              | 5,605.00              | 40.85            | 26.27         | -90.00                | 1,195.65                            | -363.39      | 659.75                 | 592.14                  | 67.60                     | 9.759             |                    |           |
| 6,900.00                          | 5,605.00              | 6,951.98              | 5,605.00              | 43.41            | 27.35         | -90.00                | 1,295.65                            | -363.39      | 659.75                 | 588.41                  | 71.34                     | 9.248             |                    |           |
| 7,000.00                          | 5,605.00              | 7,051.98              | 5,605.00              | 46.00            | 28.47         | -90.00                | 1,395.65                            | -363.38      | 659.74                 | 584.60                  | 75.15                     | 8.779             |                    |           |
| 7,100.00                          | 5,605.00              | 7,151.98              | 5,605.00              | 48.63            | 29.63         | -90.00                | 1,495.65                            | -363.38      | 659.74                 | 580.73                  | 79.02                     | 8.350             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 7,200.00                          | 5,605.00              | 7,251.98              | 5,605.00              | 51.28            | 30.80         | -90.00                | 1,595.65                            | -363.37      | 659.74                 | 576.80                  | 82.94                     | 7.955             |                    |           |
| 7,300.00                          | 5,605.00              | 7,351.98              | 5,605.00              | 53.96            | 32.00         | -90.00                | 1,695.65                            | -363.36      | 659.74                 | 572.83                  | 86.91                     | 7.591             |                    |           |
| 7,400.00                          | 5,605.00              | 7,451.98              | 5,605.00              | 56.65            | 33.23         | -90.00                | 1,795.65                            | -363.36      | 659.74                 | 568.82                  | 90.92                     | 7.257             |                    |           |
| 7,500.00                          | 5,605.00              | 7,551.98              | 5,605.00              | 59.37            | 34.47         | -90.00                | 1,895.65                            | -363.35      | 659.73                 | 564.77                  | 94.96                     | 6.947             |                    |           |
| 7,600.00                          | 5,605.00              | 7,651.98              | 5,605.00              | 62.10            | 35.73         | -90.00                | 1,995.65                            | -363.34      | 659.73                 | 560.69                  | 99.04                     | 6.661             |                    |           |
| 7,700.00                          | 5,605.00              | 7,751.98              | 5,605.00              | 64.84            | 37.01         | -90.00                | 2,095.65                            | -363.34      | 659.73                 | 556.59                  | 103.14                    | 6.396             |                    |           |
| 7,800.00                          | 5,605.00              | 7,851.98              | 5,605.00              | 67.59            | 38.30         | -90.00                | 2,195.65                            | -363.33      | 659.73                 | 552.46                  | 107.27                    | 6.150             |                    |           |
| 7,900.00                          | 5,605.00              | 7,951.98              | 5,605.00              | 70.35            | 39.60         | -90.00                | 2,295.65                            | -363.33      | 659.73                 | 548.30                  | 111.42                    | 5.921             |                    |           |
| 8,000.00                          | 5,605.00              | 8,051.98              | 5,605.00              | 73.12            | 40.91         | -90.00                | 2,395.65                            | -363.32      | 659.72                 | 544.13                  | 115.60                    | 5.707             |                    |           |
| 8,100.00                          | 5,605.00              | 8,151.98              | 5,605.00              | 75.90            | 42.24         | -90.00                | 2,495.65                            | -363.31      | 659.72                 | 539.93                  | 119.79                    | 5.507             |                    |           |
| 8,200.00                          | 5,605.00              | 8,251.98              | 5,605.00              | 78.69            | 43.57         | -90.00                | 2,595.65                            | -363.31      | 659.72                 | 535.73                  | 123.99                    | 5.321             |                    |           |
| 8,300.00                          | 5,605.00              | 8,351.98              | 5,605.00              | 81.48            | 44.91         | -90.00                | 2,695.65                            | -363.30      | 659.72                 | 531.50                  | 128.21                    | 5.145             |                    |           |
| 8,400.00                          | 5,605.00              | 8,451.98              | 5,605.00              | 84.28            | 46.26         | -90.00                | 2,795.65                            | -363.29      | 659.71                 | 527.27                  | 132.45                    | 4.981             |                    |           |
| 8,500.00                          | 5,605.00              | 8,551.98              | 5,605.00              | 87.08            | 47.62         | -90.00                | 2,895.65                            | -363.29      | 659.71                 | 523.02                  | 136.69                    | 4.826             |                    |           |
| 8,600.00                          | 5,605.00              | 8,651.98              | 5,605.00              | 89.89            | 48.98         | -90.00                | 2,995.65                            | -363.28      | 659.71                 | 518.76                  | 140.95                    | 4.680             |                    |           |
| 8,700.00                          | 5,605.00              | 8,751.98              | 5,605.00              | 92.71            | 50.35         | -90.00                | 3,095.65                            | -363.28      | 659.71                 | 514.49                  | 145.22                    | 4.543             |                    |           |
| 8,800.00                          | 5,605.00              | 8,851.98              | 5,605.00              | 95.52            | 51.73         | -90.00                | 3,195.65                            | -363.27      | 659.71                 | 510.21                  | 149.50                    | 4.413             |                    |           |
| 8,900.00                          | 5,605.00              | 8,951.98              | 5,605.00              | 98.34            | 53.11         | -90.00                | 3,295.65                            | -363.26      | 659.70                 | 505.92                  | 153.78                    | 4.290             |                    |           |
| 9,000.00                          | 5,605.00              | 9,051.98              | 5,605.00              | 101.17           | 54.49         | -90.00                | 3,395.65                            | -363.26      | 659.70                 | 501.63                  | 158.07                    | 4.173             |                    |           |
| 9,100.00                          | 5,605.00              | 9,151.98              | 5,605.00              | 104.00           | 55.88         | -90.00                | 3,495.65                            | -363.25      | 659.70                 | 497.32                  | 162.38                    | 4.063             |                    |           |
| 9,200.00                          | 5,605.00              | 9,251.98              | 5,605.00              | 106.83           | 57.28         | -90.00                | 3,595.65                            | -363.24      | 659.70                 | 493.02                  | 166.68                    | 3.958             |                    |           |
| 9,300.00                          | 5,605.00              | 9,351.98              | 5,605.00              | 109.66           | 58.67         | -90.00                | 3,695.65                            | -363.24      | 659.70                 | 488.70                  | 171.00                    | 3.858             |                    |           |
| 9,400.00                          | 5,605.00              | 9,451.98              | 5,605.00              | 112.49           | 60.07         | -90.00                | 3,795.65                            | -363.23      | 659.69                 | 484.38                  | 175.31                    | 3.763             |                    |           |
| 9,500.00                          | 5,605.00              | 9,551.98              | 5,605.00              | 115.33           | 61.48         | -90.00                | 3,895.65                            | -363.23      | 659.69                 | 480.05                  | 179.64                    | 3.672             |                    |           |
| 9,600.00                          | 5,605.00              | 9,651.98              | 5,605.00              | 118.17           | 62.89         | -90.00                | 3,995.65                            | -363.22      | 659.69                 | 475.72                  | 183.97                    | 3.586             |                    |           |
| 9,700.00                          | 5,605.00              | 9,751.98              | 5,605.00              | 121.01           | 64.30         | -90.00                | 4,095.65                            | -363.21      | 659.69                 | 471.39                  | 188.30                    | 3.503             |                    |           |
| 9,800.00                          | 5,605.00              | 9,851.98              | 5,605.00              | 123.85           | 65.71         | -90.00                | 4,195.65                            | -363.21      | 659.69                 | 467.04                  | 192.64                    | 3.424             |                    |           |
| 9,900.00                          | 5,605.00              | 9,951.98              | 5,605.00              | 126.70           | 67.12         | -90.00                | 4,295.65                            | -363.20      | 659.68                 | 462.70                  | 196.98                    | 3.349             |                    |           |
| 10,000.00                         | 5,605.00              | 10,051.98             | 5,605.00              | 129.54           | 68.54         | -90.00                | 4,395.65                            | -363.19      | 659.68                 | 458.35                  | 201.33                    | 3.277             |                    |           |
| 10,100.00                         | 5,605.00              | 10,151.98             | 5,605.00              | 132.39           | 69.96         | -90.00                | 4,495.65                            | -363.19      | 659.68                 | 454.00                  | 205.68                    | 3.207             |                    |           |
| 10,200.00                         | 5,605.00              | 10,251.98             | 5,605.00              | 135.24           | 71.38         | -90.00                | 4,595.65                            | -363.18      | 659.68                 | 449.65                  | 210.03                    | 3.141             |                    |           |
| 10,300.00                         | 5,605.00              | 10,351.98             | 5,605.00              | 138.09           | 72.81         | -90.00                | 4,695.65                            | -363.18      | 659.67                 | 445.29                  | 214.39                    | 3.077             |                    |           |
| 10,400.00                         | 5,605.00              | 10,451.98             | 5,605.00              | 140.94           | 74.23         | -90.00                | 4,795.65                            | -363.17      | 659.67                 | 440.93                  | 218.75                    | 3.016             |                    |           |
| 10,500.00                         | 5,605.00              | 10,551.98             | 5,605.00              | 143.80           | 75.66         | -90.00                | 4,895.65                            | -363.16      | 659.67                 | 436.56                  | 223.11                    | 2.957             |                    |           |
| 10,600.00                         | 5,605.00              | 10,651.98             | 5,605.00              | 146.65           | 77.09         | -90.00                | 4,995.65                            | -363.16      | 659.67                 | 432.19                  | 227.47                    | 2.900             |                    |           |
| 10,700.00                         | 5,605.00              | 10,751.98             | 5,605.00              | 149.51           | 78.52         | -90.00                | 5,095.65                            | -363.15      | 659.67                 | 427.83                  | 231.84                    | 2.845             |                    |           |
| 10,800.00                         | 5,605.00              | 10,851.98             | 5,605.00              | 152.36           | 79.95         | -90.00                | 5,195.65                            | -363.14      | 659.66                 | 423.45                  | 236.21                    | 2.793             |                    |           |
| 10,900.00                         | 5,605.00              | 10,951.98             | 5,605.00              | 155.22           | 81.39         | -90.00                | 5,295.65                            | -363.14      | 659.66                 | 419.08                  | 240.58                    | 2.742             |                    |           |
| 11,000.00                         | 5,605.00              | 11,051.98             | 5,605.00              | 158.08           | 82.82         | -90.00                | 5,395.65                            | -363.13      | 659.66                 | 414.70                  | 244.95                    | 2.693             |                    |           |
| 11,100.00                         | 5,605.00              | 11,151.98             | 5,605.00              | 160.93           | 84.26         | -90.00                | 5,495.65                            | -363.13      | 659.66                 | 410.33                  | 249.33                    | 2.646             |                    |           |
| 11,200.00                         | 5,605.00              | 11,251.98             | 5,605.00              | 163.79           | 85.70         | -90.00                | 5,595.65                            | -363.12      | 659.66                 | 405.95                  | 253.71                    | 2.600             |                    |           |
| 11,300.00                         | 5,605.00              | 11,351.98             | 5,605.00              | 166.65           | 87.14         | -90.00                | 5,695.65                            | -363.11      | 659.65                 | 401.57                  | 258.09                    | 2.556             |                    |           |
| 11,400.00                         | 5,605.00              | 11,451.98             | 5,605.00              | 169.51           | 88.58         | -90.00                | 5,795.65                            | -363.11      | 659.65                 | 397.18                  | 262.47                    | 2.513             |                    |           |
| 11,500.00                         | 5,605.00              | 11,551.98             | 5,605.00              | 172.37           | 90.02         | -90.00                | 5,895.65                            | -363.10      | 659.65                 | 392.80                  | 266.85                    | 2.472             |                    |           |
| 11,600.00                         | 5,605.00              | 11,651.98             | 5,605.00              | 175.24           | 91.46         | -90.00                | 5,995.65                            | -363.09      | 659.65                 | 388.41                  | 271.24                    | 2.432             |                    |           |
| 11,700.00                         | 5,605.00              | 11,751.98             | 5,605.00              | 178.10           | 92.90         | -90.00                | 6,095.65                            | -363.09      | 659.65                 | 384.02                  | 275.62                    | 2.393             |                    |           |
| 11,800.00                         | 5,605.00              | 11,851.98             | 5,605.00              | 180.96           | 94.35         | -90.00                | 6,195.65                            | -363.08      | 659.64                 | 379.63                  | 280.01                    | 2.356             |                    |           |
| 11,900.00                         | 5,605.00              | 11,951.98             | 5,605.00              | 183.83           | 95.79         | -90.00                | 6,295.65                            | -363.08      | 659.64                 | 375.24                  | 284.40                    | 2.319             |                    |           |
| 12,000.00                         | 5,605.00              | 12,051.98             | 5,605.00              | 186.69           | 97.23         | -90.00                | 6,395.65                            | -363.07      | 659.64                 | 370.85                  | 288.79                    | 2.284             |                    |           |
| 12,100.00                         | 5,605.00              | 12,151.98             | 5,605.00              | 189.55           | 98.68         | -90.00                | 6,495.65                            | -363.06      | 659.64                 | 366.46                  | 293.18                    | 2.250             |                    |           |
| 12,200.00                         | 5,605.00              | 12,251.98             | 5,605.00              | 192.42           | 100.13        | -90.00                | 6,595.65                            | -363.06      | 659.63                 | 362.07                  | 297.57                    | 2.217             |                    |           |
| 12,300.00                         | 5,605.00              | 12,351.98             | 5,605.00              | 195.28           | 101.58        | -90.00                | 6,695.65                            | -363.05      | 659.63                 | 357.67                  | 301.96                    | 2.184             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | Hz                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 12,400.00                         | 5,605.00              | 12,451.98             | 5,605.00              | 198.15           | 103.02        | -90.00                | 6,795.65                            | -363.04      | 659.63                 | 353.27                  | 306.36                    | 2.153             |                    |           |
| 12,500.00                         | 5,605.00              | 12,551.98             | 5,605.00              | 201.02           | 104.47        | -90.00                | 6,895.65                            | -363.04      | 659.63                 | 348.88                  | 310.75                    | 2.123             |                    |           |
| 12,600.00                         | 5,605.00              | 12,651.98             | 5,605.00              | 203.88           | 105.92        | -90.00                | 6,995.65                            | -363.03      | 659.63                 | 344.48                  | 315.15                    | 2.093             |                    |           |
| 12,700.00                         | 5,605.00              | 12,751.98             | 5,605.00              | 206.75           | 107.37        | -90.00                | 7,095.65                            | -363.03      | 659.62                 | 340.08                  | 319.55                    | 2.064             |                    |           |
| 12,800.00                         | 5,605.00              | 12,851.98             | 5,605.00              | 209.62           | 108.82        | -90.00                | 7,195.65                            | -363.02      | 659.62                 | 335.68                  | 323.94                    | 2.036             |                    |           |
| 12,900.00                         | 5,605.00              | 12,951.98             | 5,605.00              | 212.49           | 110.27        | -90.00                | 7,295.65                            | -363.01      | 659.62                 | 331.28                  | 328.34                    | 2.009             |                    |           |
| 13,000.00                         | 5,605.00              | 13,051.98             | 5,605.00              | 215.35           | 111.73        | -90.00                | 7,395.65                            | -363.01      | 659.62                 | 326.88                  | 332.74                    | 1.982             |                    |           |
| 13,100.00                         | 5,605.00              | 13,151.98             | 5,605.00              | 218.22           | 113.18        | -90.00                | 7,495.65                            | -363.00      | 659.62                 | 322.47                  | 337.14                    | 1.956             |                    |           |
| 13,200.00                         | 5,605.00              | 13,251.98             | 5,605.00              | 221.09           | 114.63        | -90.00                | 7,595.65                            | -362.99      | 659.61                 | 318.07                  | 341.54                    | 1.931             |                    |           |
| 13,300.00                         | 5,605.00              | 13,351.98             | 5,605.00              | 223.96           | 116.08        | -90.00                | 7,695.65                            | -362.99      | 659.61                 | 313.66                  | 345.95                    | 1.907             |                    |           |
| 13,400.00                         | 5,605.00              | 13,451.98             | 5,605.00              | 226.83           | 117.54        | -90.00                | 7,795.65                            | -362.98      | 659.61                 | 309.26                  | 350.35                    | 1.883             |                    |           |
| 13,500.00                         | 5,605.00              | 13,551.98             | 5,605.00              | 229.70           | 118.99        | -90.00                | 7,895.65                            | -362.98      | 659.61                 | 304.85                  | 354.75                    | 1.859             |                    |           |
| 13,600.00                         | 5,605.00              | 13,651.98             | 5,605.00              | 232.57           | 120.45        | -90.00                | 7,995.65                            | -362.97      | 659.61                 | 300.45                  | 359.16                    | 1.837             |                    |           |
| 13,700.00                         | 5,605.00              | 13,751.98             | 5,605.00              | 235.44           | 121.90        | -90.00                | 8,095.65                            | -362.96      | 659.60                 | 296.04                  | 363.56                    | 1.814             |                    |           |
| 13,800.00                         | 5,605.00              | 13,851.98             | 5,605.00              | 238.31           | 123.36        | -90.00                | 8,195.65                            | -362.96      | 659.60                 | 291.63                  | 367.97                    | 1.793             |                    |           |
| 13,900.00                         | 5,605.00              | 13,951.98             | 5,605.00              | 241.18           | 124.81        | -90.00                | 8,295.65                            | -362.95      | 659.60                 | 287.23                  | 372.37                    | 1.771             |                    |           |
| 14,000.00                         | 5,605.00              | 14,051.98             | 5,605.00              | 244.05           | 126.27        | -90.00                | 8,395.65                            | -362.94      | 659.60                 | 282.82                  | 376.78                    | 1.751             |                    |           |
| 14,100.00                         | 5,605.00              | 14,151.98             | 5,605.00              | 246.92           | 127.73        | -90.00                | 8,495.65                            | -362.94      | 659.59                 | 278.41                  | 381.19                    | 1.730             |                    |           |
| 14,200.00                         | 5,605.00              | 14,251.98             | 5,605.00              | 249.79           | 129.18        | -90.00                | 8,595.65                            | -362.93      | 659.59                 | 274.00                  | 385.59                    | 1.711             |                    |           |
| 14,300.00                         | 5,605.00              | 14,351.98             | 5,605.00              | 252.67           | 130.64        | -90.00                | 8,695.65                            | -362.93      | 659.59                 | 269.59                  | 390.00                    | 1.691             |                    |           |
| 14,400.00                         | 5,605.00              | 14,451.98             | 5,605.00              | 255.54           | 132.10        | -90.00                | 8,795.65                            | -362.92      | 659.59                 | 265.18                  | 394.41                    | 1.672             |                    |           |
| 14,500.00                         | 5,605.00              | 14,551.98             | 5,605.00              | 258.41           | 133.55        | -90.00                | 8,895.65                            | -362.91      | 659.59                 | 260.77                  | 398.82                    | 1.654             |                    |           |
| 14,600.00                         | 5,605.00              | 14,651.98             | 5,605.00              | 261.28           | 135.01        | -90.00                | 8,995.65                            | -362.91      | 659.58                 | 256.35                  | 403.23                    | 1.636             |                    |           |
| 14,700.00                         | 5,605.00              | 14,751.98             | 5,605.00              | 264.15           | 136.47        | -90.00                | 9,095.65                            | -362.90      | 659.58                 | 251.94                  | 407.64                    | 1.618             |                    |           |
| 14,800.00                         | 5,605.00              | 14,851.98             | 5,605.00              | 267.03           | 137.93        | -90.00                | 9,195.65                            | -362.89      | 659.58                 | 247.53                  | 412.05                    | 1.601             |                    |           |
| 14,900.00                         | 5,605.00              | 14,951.98             | 5,605.00              | 269.90           | 139.39        | -90.00                | 9,295.65                            | -362.89      | 659.58                 | 243.12                  | 416.46                    | 1.584             |                    |           |
| 15,000.00                         | 5,605.00              | 15,051.98             | 5,605.00              | 272.77           | 140.85        | -90.00                | 9,395.65                            | -362.88      | 659.58                 | 238.70                  | 420.87                    | 1.567             |                    |           |
| 15,100.00                         | 5,605.00              | 15,151.98             | 5,605.00              | 275.64           | 142.31        | -90.00                | 9,495.65                            | -362.88      | 659.57                 | 234.29                  | 425.29                    | 1.551             |                    |           |
| 15,200.00                         | 5,605.00              | 15,251.98             | 5,605.00              | 278.52           | 143.77        | -90.00                | 9,595.65                            | -362.87      | 659.57                 | 229.87                  | 429.70                    | 1.535             |                    |           |
| 15,300.00                         | 5,605.00              | 15,351.98             | 5,605.00              | 281.39           | 145.23        | -90.00                | 9,695.65                            | -362.86      | 659.57                 | 225.46                  | 434.11                    | 1.519             |                    |           |
| 15,400.00                         | 5,605.00              | 15,451.98             | 5,605.00              | 284.26           | 146.69        | -90.00                | 9,795.65                            | -362.86      | 659.57                 | 221.04                  | 438.52                    | 1.504             |                    |           |
| 15,500.00                         | 5,605.00              | 15,551.98             | 5,605.00              | 287.14           | 148.15        | -90.00                | 9,895.65                            | -362.85      | 659.56                 | 216.63                  | 442.94                    | 1.489 Level 3     |                    |           |
| 15,600.00                         | 5,605.00              | 15,651.98             | 5,605.00              | 290.01           | 149.61        | -90.00                | 9,995.65                            | -362.84      | 659.56                 | 212.21                  | 447.35                    | 1.474 Level 3     |                    |           |
| 15,700.00                         | 5,605.00              | 15,751.98             | 5,605.00              | 292.88           | 151.07        | -90.00                | 10,095.65                           | -362.84      | 659.56                 | 207.80                  | 451.76                    | 1.460 Level 3     |                    |           |
| 15,738.89                         | 5,605.00              | 15,790.87             | 5,605.00              | 294.00           | 151.64        | -90.00                | 10,134.54                           | -362.84      | 659.56                 | 206.07                  | 453.49                    | 1.454 Level 3     |                    |           |
| 15,752.28                         | 5,605.00              | 15,801.18             | 5,605.00              | 294.39           | 151.79        | -90.00                | 10,144.85                           | -362.83      | 659.57                 | 205.54                  | 454.03                    | 1.453 Level 3, SF |                    |           |



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -90.00                | 0.00                                | -29.99       | 29.99                  |                         |                           |                   |                    |           |
| 100.00                            | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -90.00                | 0.00                                | -29.99       | 29.99                  | 29.73                   | 0.27                      | 112.606           |                    |           |
| 200.00                            | 200.00                | 200.00                | 200.00                | 0.47             | 0.47          | -90.00                | 0.00                                | -29.99       | 29.99                  | 29.05                   | 0.94                      | 31.885            |                    |           |
| 300.00                            | 300.00                | 300.00                | 300.00                | 0.81             | 0.81          | -90.00                | 0.00                                | -29.99       | 29.99                  | 28.38                   | 1.61                      | 18.572 CC         |                    |           |
| 400.00                            | 399.98                | 399.95                | 399.93                | 1.12             | 1.11          | 143.63                | -1.74                               | -30.02       | 31.46                  | 29.24                   | 2.23                      | 14.133            |                    |           |
| 500.00                            | 499.84                | 499.75                | 499.59                | 1.43             | 1.41          | 140.20                | -6.96                               | -30.11       | 35.95                  | 33.12                   | 2.83                      | 12.710            |                    |           |
| 600.00                            | 599.49                | 599.37                | 598.86                | 1.78             | 1.73          | 136.26                | -15.20                              | -30.26       | 43.25                  | 39.76                   | 3.49                      | 12.402            |                    |           |
| 700.00                            | 699.11                | 699.03                | 698.15                | 2.17             | 2.04          | 133.37                | -23.89                              | -30.41       | 51.07                  | 46.90                   | 4.18                      | 12.224            |                    |           |
| 800.00                            | 798.73                | 798.70                | 797.43                | 2.56             | 2.38          | 131.26                | -32.57                              | -30.56       | 59.00                  | 54.10                   | 4.89                      | 12.056            |                    |           |
| 900.00                            | 898.35                | 898.36                | 896.72                | 2.96             | 2.73          | 129.64                | -41.26                              | -30.71       | 66.98                  | 61.36                   | 5.62                      | 11.909            |                    |           |
| 1,000.00                          | 997.97                | 998.03                | 996.01                | 3.37             | 3.08          | 128.37                | -49.94                              | -30.86       | 75.00                  | 68.64                   | 6.36                      | 11.784            |                    |           |
| 1,100.00                          | 1,097.59              | 1,097.69              | 1,095.29              | 3.78             | 3.44          | 127.35                | -58.63                              | -31.02       | 83.06                  | 75.95                   | 7.11                      | 11.678            |                    |           |
| 1,200.00                          | 1,197.21              | 1,197.36              | 1,194.58              | 4.19             | 3.80          | 126.50                | -67.31                              | -31.17       | 91.14                  | 83.27                   | 7.87                      | 11.587            |                    |           |
| 1,300.00                          | 1,296.83              | 1,297.02              | 1,293.86              | 4.61             | 4.16          | 125.80                | -76.00                              | -31.32       | 99.23                  | 90.61                   | 8.62                      | 11.509            |                    |           |
| 1,400.00                          | 1,396.45              | 1,396.69              | 1,393.15              | 5.03             | 4.52          | 125.20                | -84.68                              | -31.47       | 107.33                 | 97.95                   | 9.38                      | 11.442            |                    |           |
| 1,500.00                          | 1,496.07              | 1,496.35              | 1,492.44              | 5.44             | 4.88          | 124.69                | -93.37                              | -31.62       | 115.45                 | 105.31                  | 10.14                     | 11.383            |                    |           |
| 1,600.00                          | 1,595.69              | 1,596.02              | 1,591.72              | 5.86             | 5.24          | 124.24                | -102.05                             | -31.77       | 123.57                 | 112.67                  | 10.91                     | 11.331            |                    |           |
| 1,700.00                          | 1,695.31              | 1,695.68              | 1,691.01              | 6.28             | 5.60          | 123.85                | -110.74                             | -31.93       | 131.70                 | 120.03                  | 11.67                     | 11.285            |                    |           |
| 1,800.00                          | 1,794.93              | 1,795.35              | 1,790.29              | 6.70             | 5.97          | 123.50                | -119.42                             | -32.08       | 139.84                 | 127.40                  | 12.44                     | 11.245            |                    |           |
| 1,900.00                          | 1,894.55              | 1,895.02              | 1,889.58              | 7.12             | 6.33          | 123.19                | -128.11                             | -32.23       | 147.98                 | 134.78                  | 13.20                     | 11.208            |                    |           |
| 2,000.00                          | 1,994.17              | 1,994.68              | 1,988.87              | 7.54             | 6.69          | 122.91                | -136.79                             | -32.38       | 156.12                 | 142.15                  | 13.97                     | 11.176            |                    |           |
| 2,100.00                          | 2,093.78              | 2,094.35              | 2,088.15              | 7.96             | 7.06          | 122.67                | -145.48                             | -32.53       | 164.27                 | 149.53                  | 14.74                     | 11.146            |                    |           |
| 2,200.00                          | 2,193.40              | 2,194.01              | 2,187.44              | 8.38             | 7.42          | 122.44                | -154.16                             | -32.68       | 172.42                 | 156.91                  | 15.51                     | 11.119            |                    |           |
| 2,300.00                          | 2,293.02              | 2,293.68              | 2,286.72              | 8.80             | 7.79          | 122.24                | -162.85                             | -32.84       | 180.57                 | 164.30                  | 16.28                     | 11.095            |                    |           |
| 2,400.00                          | 2,392.64              | 2,393.34              | 2,386.01              | 9.22             | 8.15          | 122.05                | -171.53                             | -32.99       | 188.73                 | 171.68                  | 17.05                     | 11.072            |                    |           |
| 2,500.00                          | 2,492.26              | 2,493.01              | 2,485.30              | 9.64             | 8.51          | 121.88                | -180.22                             | -33.14       | 196.88                 | 179.07                  | 17.82                     | 11.052            |                    |           |
| 2,600.00                          | 2,591.88              | 2,593.95              | 2,585.89              | 10.07            | 8.86          | 121.80                | -188.68                             | -33.29       | 204.91                 | 186.34                  | 18.57                     | 11.037            |                    |           |
| 2,700.00                          | 2,691.50              | 2,696.70              | 2,688.47              | 10.49            | 9.13          | 122.49                | -194.22                             | -33.38       | 211.73                 | 192.50                  | 19.23                     | 11.009            |                    |           |
| 2,800.00                          | 2,791.12              | 2,799.35              | 2,791.10              | 10.91            | 9.42          | 124.04                | -196.08                             | -33.42       | 217.22                 | 197.31                  | 19.91                     | 10.911            |                    |           |
| 2,900.00                          | 2,890.74              | 2,898.99              | 2,890.74              | 11.33            | 9.71          | 125.90                | -196.08                             | -33.42       | 222.23                 | 201.66                  | 20.57                     | 10.806            |                    |           |
| 3,000.00                          | 2,990.36              | 2,998.60              | 2,990.36              | 11.75            | 9.96          | 127.67                | -196.08                             | -33.42       | 227.46                 | 206.28                  | 21.19                     | 10.736            |                    |           |
| 3,100.00                          | 3,089.98              | 3,098.22              | 3,089.98              | 12.18            | 10.22         | 129.36                | -196.08                             | -33.42       | 232.90                 | 211.10                  | 21.81                     | 10.680            |                    |           |
| 3,200.00                          | 3,189.60              | 3,197.84              | 3,189.60              | 12.60            | 10.49         | 130.98                | -196.08                             | -33.42       | 238.54                 | 216.11                  | 22.43                     | 10.636            |                    |           |
| 3,300.00                          | 3,289.22              | 3,297.46              | 3,289.22              | 13.02            | 10.76         | 132.52                | -196.08                             | -33.42       | 244.35                 | 221.31                  | 23.05                     | 10.602            |                    |           |
| 3,400.00                          | 3,388.84              | 3,397.08              | 3,388.84              | 13.44            | 11.03         | 133.99                | -196.08                             | -33.42       | 250.34                 | 226.67                  | 23.67                     | 10.577            |                    |           |
| 3,500.00                          | 3,488.46              | 3,496.70              | 3,488.46              | 13.86            | 11.30         | 135.38                | -196.08                             | -33.42       | 256.48                 | 232.19                  | 24.29                     | 10.559            |                    |           |
| 3,600.00                          | 3,588.08              | 3,596.32              | 3,588.08              | 14.29            | 11.58         | 136.72                | -196.08                             | -33.42       | 262.77                 | 237.85                  | 24.91                     | 10.547            |                    |           |
| 3,700.00                          | 3,687.70              | 3,695.94              | 3,687.70              | 14.71            | 11.86         | 137.99                | -196.08                             | -33.42       | 269.19                 | 243.65                  | 25.54                     | 10.541            |                    |           |
| 3,800.00                          | 3,787.32              | 3,795.56              | 3,787.32              | 15.13            | 12.15         | 139.20                | -196.08                             | -33.42       | 275.74                 | 249.57                  | 26.16                     | 10.540            |                    |           |
| 3,900.00                          | 3,886.94              | 3,895.18              | 3,886.94              | 15.55            | 12.43         | 140.35                | -196.08                             | -33.42       | 282.40                 | 255.61                  | 26.79                     | 10.542            |                    |           |
| 4,000.00                          | 3,986.55              | 3,994.80              | 3,986.55              | 15.98            | 12.72         | 141.45                | -196.08                             | -33.42       | 289.18                 | 261.76                  | 27.41                     | 10.548            |                    |           |
| 4,100.00                          | 4,086.17              | 4,094.42              | 4,086.17              | 16.40            | 13.01         | 142.50                | -196.08                             | -33.42       | 296.05                 | 268.01                  | 28.04                     | 10.557            |                    |           |
| 4,200.00                          | 4,185.79              | 4,194.04              | 4,185.79              | 16.82            | 13.31         | 143.50                | -196.08                             | -33.42       | 303.02                 | 274.35                  | 28.67                     | 10.568            |                    |           |
| 4,300.00                          | 4,285.41              | 4,293.66              | 4,285.41              | 17.25            | 13.60         | 144.46                | -196.08                             | -33.42       | 310.08                 | 280.78                  | 29.30                     | 10.581            |                    |           |
| 4,400.00                          | 4,385.03              | 4,393.28              | 4,385.03              | 17.67            | 13.90         | 145.37                | -196.08                             | -33.42       | 317.22                 | 287.28                  | 29.94                     | 10.596            |                    |           |
| 4,500.00                          | 4,484.69              | 4,492.93              | 4,484.69              | 18.06            | 14.20         | 146.24                | -196.08                             | -33.42       | 324.08                 | 293.57                  | 30.51                     | 10.621            |                    |           |
| 4,600.00                          | 4,584.55              | 4,592.79              | 4,584.55              | 18.32            | 14.50         | 146.80                | -196.08                             | -33.42       | 328.45                 | 297.45                  | 30.99                     | 10.597            |                    |           |
| 4,700.00                          | 4,684.52              | 4,692.77              | 4,684.52              | 18.58            | 14.80         | -88.02                | -196.08                             | -33.42       | 329.91                 | 298.37                  | 31.54                     | 10.459            |                    |           |
| 4,800.00                          | 4,784.53              | 4,792.77              | 4,784.53              | 18.82            | 15.11         | -88.02                | -196.08                             | -33.42       | 329.91                 | 297.79                  | 32.12                     | 10.271            |                    |           |
| 4,900.00                          | 4,884.53              | 4,892.77              | 4,884.53              | 19.06            | 15.41         | -88.02                | -196.08                             | -33.42       | 329.91                 | 297.23                  | 32.68                     | 10.095            |                    |           |
| 5,000.00                          | 4,984.53              | 4,992.77              | 4,984.53              | 19.30            | 15.72         | -88.02                | -196.08                             | -33.42       | 329.91                 | 296.66                  | 33.25                     | 9.923             |                    |           |
| 5,012.27                          | 4,996.79              | 5,005.04              | 4,996.79              | 19.33            | 15.76         | -88.02                | -196.08                             | -33.42       | 329.91                 | 296.59                  | 33.32                     | 9.903             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,099.99                          | 5,084.51              | 5,090.66              | 5,082.18              | 19.54            | 16.01         | -87.13                | -190.94                             | -33.42       | 330.13                 | 296.38                  | 33.76                     | 9.780             |                    |           |
| 5,200.00                          | 5,183.90              | 5,185.48              | 5,174.33              | 19.73            | 16.26         | -84.81                | -169.19                             | -33.41       | 331.09                 | 297.00                  | 34.09                     | 9.712             |                    |           |
| 5,300.00                          | 5,279.62              | 5,278.23              | 5,259.22              | 19.81            | 16.48         | -82.71                | -132.12                             | -33.41       | 332.44                 | 298.14                  | 34.30                     | 9.693             |                    |           |
| 5,400.00                          | 5,368.15              | 5,369.27              | 5,334.86              | 19.82            | 16.68         | -80.87                | -81.67                              | -33.41       | 333.98                 | 299.53                  | 34.45                     | 9.694             |                    |           |
| 5,500.00                          | 5,446.24              | 5,458.91              | 5,399.66              | 19.80            | 16.89         | -79.36                | -19.88                              | -33.41       | 335.52                 | 300.86                  | 34.66                     | 9.681             |                    |           |
| 5,600.00                          | 5,511.03              | 5,550.00              | 5,453.67              | 19.76            | 17.12         | -78.18                | 53.32                               | -33.41       | 336.85                 | 301.82                  | 35.04                     | 9.614             |                    |           |
| 5,700.00                          | 5,560.13              | 5,635.35              | 5,492.00              | 19.76            | 17.38         | -77.44                | 129.47                              | -33.40       | 337.81                 | 302.10                  | 35.71                     | 9.461             |                    |           |
| 5,800.00                          | 5,591.74              | 5,722.78              | 5,517.84              | 20.35            | 17.69         | -77.08                | 212.88                              | -33.40       | 338.29                 | 301.53                  | 36.76                     | 9.203             |                    |           |
| 5,900.00                          | 5,604.70              | 5,810.08              | 5,529.38              | 21.61            | 18.05         | -77.12                | 299.31                              | -33.40       | 338.23                 | 300.01                  | 38.21                     | 8.851             |                    |           |
| 5,974.06                          | 5,606.29              | 5,880.45              | 5,530.00              | 22.74            | 18.38         | -76.97                | 369.67                              | -33.40       | 338.43                 | 298.84                  | 39.58                     | 8.550             |                    |           |
| 6,000.00                          | 5,605.00              | 5,906.40              | 5,530.00              | 23.15            | 18.52         | -77.19                | 395.62                              | -33.39       | 338.14                 | 298.02                  | 40.11                     | 8.430             |                    |           |
| 6,100.00                          | 5,605.00              | 6,006.40              | 5,530.00              | 24.91            | 19.10         | -77.19                | 495.62                              | -33.39       | 338.14                 | 295.76                  | 42.38                     | 7.979             |                    |           |
| 6,200.00                          | 5,605.00              | 6,106.40              | 5,530.00              | 26.86            | 19.78         | -77.19                | 595.62                              | -33.39       | 338.14                 | 293.20                  | 44.94                     | 7.525             |                    |           |
| 6,300.00                          | 5,605.00              | 6,206.40              | 5,530.00              | 28.95            | 20.53         | -77.19                | 695.62                              | -33.38       | 338.14                 | 290.41                  | 47.73                     | 7.084             |                    |           |
| 6,400.00                          | 5,605.00              | 6,306.40              | 5,530.00              | 31.17            | 21.37         | -77.19                | 795.62                              | -33.38       | 338.14                 | 287.42                  | 50.72                     | 6.666             |                    |           |
| 6,500.00                          | 5,605.00              | 6,406.40              | 5,530.00              | 33.49            | 22.27         | -77.19                | 895.62                              | -33.38       | 338.14                 | 284.26                  | 53.88                     | 6.276             |                    |           |
| 6,600.00                          | 5,605.00              | 6,506.40              | 5,530.00              | 35.88            | 23.23         | -77.19                | 995.62                              | -33.37       | 338.14                 | 280.97                  | 57.18                     | 5.914             |                    |           |
| 6,700.00                          | 5,605.00              | 6,606.40              | 5,530.00              | 38.34            | 24.24         | -77.19                | 1,095.62                            | -33.37       | 338.14                 | 277.56                  | 60.59                     | 5.581             |                    |           |
| 6,800.00                          | 5,605.00              | 6,706.40              | 5,530.00              | 40.85            | 25.29         | -77.19                | 1,195.62                            | -33.37       | 338.14                 | 274.05                  | 64.09                     | 5.276             |                    |           |
| 6,900.00                          | 5,605.00              | 6,806.40              | 5,530.00              | 43.41            | 26.39         | -77.19                | 1,295.62                            | -33.36       | 338.14                 | 270.42                  | 67.73                     | 4.993             |                    |           |
| 7,000.00                          | 5,605.00              | 6,906.40              | 5,530.00              | 46.00            | 27.52         | -77.19                | 1,395.62                            | -33.36       | 338.14                 | 266.68                  | 71.46                     | 4.732             |                    |           |
| 7,100.00                          | 5,605.00              | 7,006.40              | 5,530.00              | 48.63            | 28.68         | -77.19                | 1,495.62                            | -33.36       | 338.14                 | 262.89                  | 75.26                     | 4.493             |                    |           |
| 7,200.00                          | 5,605.00              | 7,106.40              | 5,530.00              | 51.28            | 29.87         | -77.19                | 1,595.62                            | -33.35       | 338.15                 | 259.04                  | 79.11                     | 4.275             |                    |           |
| 7,300.00                          | 5,605.00              | 7,206.40              | 5,530.00              | 53.96            | 31.08         | -77.19                | 1,695.62                            | -33.35       | 338.15                 | 255.15                  | 83.00                     | 4.074             |                    |           |
| 7,400.00                          | 5,605.00              | 7,306.40              | 5,530.00              | 56.65            | 32.32         | -77.19                | 1,795.62                            | -33.35       | 338.15                 | 251.21                  | 86.93                     | 3.890             |                    |           |
| 7,500.00                          | 5,605.00              | 7,406.40              | 5,530.00              | 59.37            | 33.57         | -77.19                | 1,895.62                            | -33.34       | 338.15                 | 247.25                  | 90.90                     | 3.720             |                    |           |
| 7,600.00                          | 5,605.00              | 7,506.40              | 5,530.00              | 62.10            | 34.84         | -77.19                | 1,995.62                            | -33.34       | 338.15                 | 243.25                  | 94.90                     | 3.563             |                    |           |
| 7,700.00                          | 5,605.00              | 7,606.40              | 5,530.00              | 64.84            | 36.13         | -77.19                | 2,095.62                            | -33.34       | 338.15                 | 239.22                  | 98.93                     | 3.418             |                    |           |
| 7,800.00                          | 5,605.00              | 7,706.40              | 5,530.00              | 67.59            | 37.43         | -77.19                | 2,195.62                            | -33.33       | 338.15                 | 235.17                  | 102.98                    | 3.284             |                    |           |
| 7,900.00                          | 5,605.00              | 7,806.40              | 5,530.00              | 70.35            | 38.74         | -77.19                | 2,295.62                            | -33.33       | 338.15                 | 231.10                  | 107.05                    | 3.159             |                    |           |
| 8,000.00                          | 5,605.00              | 7,906.40              | 5,530.00              | 73.12            | 40.06         | -77.19                | 2,395.62                            | -33.32       | 338.15                 | 227.01                  | 111.14                    | 3.043             |                    |           |
| 8,100.00                          | 5,605.00              | 8,006.40              | 5,530.00              | 75.90            | 41.40         | -77.19                | 2,495.62                            | -33.32       | 338.15                 | 222.91                  | 115.25                    | 2.934             |                    |           |
| 8,200.00                          | 5,605.00              | 8,106.40              | 5,530.00              | 78.69            | 42.74         | -77.19                | 2,595.62                            | -33.32       | 338.15                 | 218.78                  | 119.37                    | 2.833             |                    |           |
| 8,300.00                          | 5,605.00              | 8,206.40              | 5,530.00              | 81.48            | 44.09         | -77.19                | 2,695.62                            | -33.31       | 338.15                 | 214.65                  | 123.51                    | 2.738             |                    |           |
| 8,400.00                          | 5,605.00              | 8,306.40              | 5,530.00              | 84.28            | 45.45         | -77.19                | 2,795.62                            | -33.31       | 338.15                 | 210.50                  | 127.66                    | 2.649             |                    |           |
| 8,500.00                          | 5,605.00              | 8,406.40              | 5,530.00              | 87.08            | 46.81         | -77.19                | 2,895.62                            | -33.31       | 338.15                 | 206.34                  | 131.82                    | 2.565             |                    |           |
| 8,600.00                          | 5,605.00              | 8,506.40              | 5,530.00              | 89.89            | 48.18         | -77.19                | 2,995.62                            | -33.30       | 338.15                 | 202.17                  | 135.99                    | 2.487             |                    |           |
| 8,700.00                          | 5,605.00              | 8,606.40              | 5,530.00              | 92.71            | 49.56         | -77.19                | 3,095.62                            | -33.30       | 338.16                 | 197.98                  | 140.17                    | 2.412             |                    |           |
| 8,800.00                          | 5,605.00              | 8,706.40              | 5,530.00              | 95.52            | 50.94         | -77.19                | 3,195.62                            | -33.30       | 338.16                 | 193.79                  | 144.36                    | 2.342             |                    |           |
| 8,900.00                          | 5,605.00              | 8,806.40              | 5,530.00              | 98.34            | 52.33         | -77.19                | 3,295.62                            | -33.29       | 338.16                 | 189.60                  | 148.56                    | 2.276             |                    |           |
| 9,000.00                          | 5,605.00              | 8,906.40              | 5,530.00              | 101.17           | 53.72         | -77.19                | 3,395.62                            | -33.29       | 338.16                 | 185.39                  | 152.77                    | 2.214             |                    |           |
| 9,100.00                          | 5,605.00              | 9,006.40              | 5,530.00              | 104.00           | 55.12         | -77.19                | 3,495.62                            | -33.29       | 338.16                 | 181.18                  | 156.98                    | 2.154             |                    |           |
| 9,200.00                          | 5,605.00              | 9,106.40              | 5,530.00              | 106.83           | 56.52         | -77.19                | 3,595.62                            | -33.28       | 338.16                 | 176.96                  | 161.20                    | 2.098             |                    |           |
| 9,300.00                          | 5,605.00              | 9,206.40              | 5,530.00              | 109.66           | 57.92         | -77.19                | 3,695.62                            | -33.28       | 338.16                 | 172.74                  | 165.42                    | 2.044             |                    |           |
| 9,400.00                          | 5,605.00              | 9,306.40              | 5,530.00              | 112.49           | 59.32         | -77.19                | 3,795.62                            | -33.28       | 338.16                 | 168.51                  | 169.65                    | 1.993             |                    |           |
| 9,500.00                          | 5,605.00              | 9,406.40              | 5,530.00              | 115.33           | 60.73         | -77.19                | 3,895.62                            | -33.27       | 338.16                 | 164.27                  | 173.89                    | 1.945             |                    |           |
| 9,600.00                          | 5,605.00              | 9,506.40              | 5,530.00              | 118.17           | 62.15         | -77.19                | 3,995.62                            | -33.27       | 338.16                 | 160.03                  | 178.13                    | 1.898             |                    |           |
| 9,700.00                          | 5,605.00              | 9,606.40              | 5,530.00              | 121.01           | 63.56         | -77.19                | 4,095.62                            | -33.27       | 338.16                 | 155.79                  | 182.37                    | 1.854             |                    |           |
| 9,800.00                          | 5,605.00              | 9,706.40              | 5,530.00              | 123.85           | 64.98         | -77.19                | 4,195.62                            | -33.26       | 338.16                 | 151.54                  | 186.62                    | 1.812             |                    |           |
| 9,900.00                          | 5,605.00              | 9,806.40              | 5,530.00              | 126.70           | 66.40         | -77.19                | 4,295.62                            | -33.26       | 338.16                 | 147.29                  | 190.87                    | 1.772             |                    |           |
| 10,000.00                         | 5,605.00              | 9,906.40              | 5,530.00              | 129.54           | 67.82         | -77.19                | 4,395.62                            | -33.26       | 338.16                 | 143.04                  | 195.13                    | 1.733             |                    |           |
| 10,100.00                         | 5,605.00              | 10,006.40             | 5,530.00              | 132.39           | 69.25         | -77.19                | 4,495.62                            | -33.25       | 338.16                 | 138.78                  | 199.39                    | 1.696             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 10,200.00                         | 5,605.00              | 10,106.40             | 5,530.00              | 135.24           | 70.67         | -77.19                | 4,595.62                            | -33.25       | 338.16                 | 134.52                  | 203.65                    | 1.661             |                    |           |
| 10,300.00                         | 5,605.00              | 10,206.40             | 5,530.00              | 138.09           | 72.10         | -77.19                | 4,695.62                            | -33.24       | 338.17                 | 130.25                  | 207.92                    | 1.626             |                    |           |
| 10,400.00                         | 5,605.00              | 10,306.40             | 5,530.00              | 140.94           | 73.53         | -77.19                | 4,795.62                            | -33.24       | 338.17                 | 125.98                  | 212.18                    | 1.594             |                    |           |
| 10,500.00                         | 5,605.00              | 10,406.40             | 5,530.00              | 143.80           | 74.96         | -77.19                | 4,895.62                            | -33.24       | 338.17                 | 121.71                  | 216.45                    | 1.562             |                    |           |
| 10,600.00                         | 5,605.00              | 10,506.40             | 5,530.00              | 146.65           | 76.40         | -77.19                | 4,995.62                            | -33.23       | 338.17                 | 117.44                  | 220.73                    | 1.532             |                    |           |
| 10,700.00                         | 5,605.00              | 10,606.40             | 5,530.00              | 149.51           | 77.83         | -77.19                | 5,095.62                            | -33.23       | 338.17                 | 113.17                  | 225.00                    | 1.503             |                    |           |
| 10,800.00                         | 5,605.00              | 10,706.40             | 5,530.00              | 152.36           | 79.27         | -77.19                | 5,195.62                            | -33.23       | 338.17                 | 108.89                  | 229.28                    | 1.475             | Level 3            |           |
| 10,900.00                         | 5,605.00              | 10,806.40             | 5,530.00              | 155.22           | 80.70         | -77.19                | 5,295.62                            | -33.22       | 338.17                 | 104.61                  | 233.56                    | 1.448             | Level 3            |           |
| 11,000.00                         | 5,605.00              | 10,906.40             | 5,530.00              | 158.08           | 82.14         | -77.19                | 5,395.62                            | -33.22       | 338.17                 | 100.33                  | 237.84                    | 1.422             | Level 3            |           |
| 11,100.00                         | 5,605.00              | 11,006.40             | 5,530.00              | 160.93           | 83.58         | -77.19                | 5,495.62                            | -33.22       | 338.17                 | 96.05                   | 242.12                    | 1.397             | Level 3            |           |
| 11,200.00                         | 5,605.00              | 11,106.40             | 5,530.00              | 163.79           | 85.02         | -77.19                | 5,595.62                            | -33.21       | 338.17                 | 91.76                   | 246.41                    | 1.372             | Level 3            |           |
| 11,300.00                         | 5,605.00              | 11,206.40             | 5,530.00              | 166.65           | 86.46         | -77.19                | 5,695.62                            | -33.21       | 338.17                 | 87.47                   | 250.70                    | 1.349             | Level 3            |           |
| 11,400.00                         | 5,605.00              | 11,306.40             | 5,530.00              | 169.51           | 87.90         | -77.19                | 5,795.62                            | -33.21       | 338.17                 | 83.19                   | 254.99                    | 1.326             | Level 3            |           |
| 11,500.00                         | 5,605.00              | 11,406.40             | 5,530.00              | 172.37           | 89.35         | -77.19                | 5,895.62                            | -33.20       | 338.17                 | 78.90                   | 259.28                    | 1.304             | Level 3            |           |
| 11,600.00                         | 5,605.00              | 11,506.40             | 5,530.00              | 175.24           | 90.79         | -77.19                | 5,995.62                            | -33.20       | 338.17                 | 74.61                   | 263.57                    | 1.283             | Level 3            |           |
| 11,700.00                         | 5,605.00              | 11,606.40             | 5,530.00              | 178.10           | 92.24         | -77.19                | 6,095.62                            | -33.20       | 338.17                 | 70.31                   | 267.86                    | 1.263             | Level 3            |           |
| 11,800.00                         | 5,605.00              | 11,706.40             | 5,530.00              | 180.96           | 93.68         | -77.19                | 6,195.62                            | -33.19       | 338.18                 | 66.02                   | 272.15                    | 1.243             | Level 2            |           |
| 11,900.00                         | 5,605.00              | 11,806.40             | 5,530.00              | 183.83           | 95.13         | -77.19                | 6,295.62                            | -33.19       | 338.18                 | 61.73                   | 276.45                    | 1.223             | Level 2            |           |
| 12,000.00                         | 5,605.00              | 11,906.40             | 5,530.00              | 186.69           | 96.58         | -77.19                | 6,395.62                            | -33.19       | 338.18                 | 57.43                   | 280.75                    | 1.205             | Level 2            |           |
| 12,100.00                         | 5,605.00              | 12,006.40             | 5,530.00              | 189.55           | 98.03         | -77.19                | 6,495.62                            | -33.18       | 338.18                 | 53.13                   | 285.04                    | 1.186             | Level 2            |           |
| 12,200.00                         | 5,605.00              | 12,106.40             | 5,530.00              | 192.42           | 99.48         | -77.19                | 6,595.62                            | -33.18       | 338.18                 | 48.83                   | 289.34                    | 1.169             | Level 2            |           |
| 12,300.00                         | 5,605.00              | 12,206.40             | 5,530.00              | 195.28           | 100.93        | -77.19                | 6,695.62                            | -33.18       | 338.18                 | 44.54                   | 293.64                    | 1.152             | Level 2            |           |
| 12,400.00                         | 5,605.00              | 12,306.40             | 5,530.00              | 198.15           | 102.38        | -77.19                | 6,795.62                            | -33.17       | 338.18                 | 40.23                   | 297.94                    | 1.135             | Level 2            |           |
| 12,500.00                         | 5,605.00              | 12,406.40             | 5,530.00              | 201.02           | 103.83        | -77.19                | 6,895.62                            | -33.17       | 338.18                 | 35.93                   | 302.25                    | 1.119             | Level 2            |           |
| 12,600.00                         | 5,605.00              | 12,506.40             | 5,530.00              | 203.88           | 105.28        | -77.19                | 6,995.62                            | -33.16       | 338.18                 | 31.63                   | 306.55                    | 1.103             | Level 2            |           |
| 12,700.00                         | 5,605.00              | 12,606.40             | 5,530.00              | 206.75           | 106.73        | -77.19                | 7,095.62                            | -33.16       | 338.18                 | 27.33                   | 310.85                    | 1.088             | Level 2            |           |
| 12,800.00                         | 5,605.00              | 12,706.40             | 5,530.00              | 209.62           | 108.18        | -77.19                | 7,195.62                            | -33.16       | 338.18                 | 23.02                   | 315.16                    | 1.073             | Level 2            |           |
| 12,900.00                         | 5,605.00              | 12,806.40             | 5,530.00              | 212.49           | 109.64        | -77.19                | 7,295.62                            | -33.15       | 338.18                 | 18.72                   | 319.46                    | 1.059             | Level 2            |           |
| 13,000.00                         | 5,605.00              | 12,906.40             | 5,530.00              | 215.35           | 111.09        | -77.19                | 7,395.62                            | -33.15       | 338.18                 | 14.41                   | 323.77                    | 1.045             | Level 2            |           |
| 13,100.00                         | 5,605.00              | 13,006.40             | 5,530.00              | 218.22           | 112.54        | -77.19                | 7,495.62                            | -33.15       | 338.18                 | 10.11                   | 328.08                    | 1.031             | Level 2            |           |
| 13,200.00                         | 5,605.00              | 13,106.40             | 5,530.00              | 221.09           | 114.00        | -77.19                | 7,595.62                            | -33.14       | 338.18                 | 5.80                    | 332.38                    | 1.017             | Level 2            |           |
| 13,300.00                         | 5,605.00              | 13,206.40             | 5,530.00              | 223.96           | 115.45        | -77.19                | 7,695.62                            | -33.14       | 338.18                 | 1.49                    | 336.69                    | 1.004             | Level 2            |           |
| 13,400.00                         | 5,605.00              | 13,306.40             | 5,530.00              | 226.83           | 116.91        | -77.19                | 7,795.62                            | -33.14       | 338.19                 | -2.82                   | 341.00                    | 0.992             | Level 1            |           |
| 13,500.00                         | 5,605.00              | 13,406.40             | 5,530.00              | 229.70           | 118.36        | -77.19                | 7,895.62                            | -33.13       | 338.19                 | -7.12                   | 345.31                    | 0.979             | Level 1            |           |
| 13,600.00                         | 5,605.00              | 13,506.40             | 5,530.00              | 232.57           | 119.82        | -77.19                | 7,995.62                            | -33.13       | 338.19                 | -11.43                  | 349.62                    | 0.967             | Level 1            |           |
| 13,700.00                         | 5,605.00              | 13,606.40             | 5,530.00              | 235.44           | 121.28        | -77.19                | 8,095.62                            | -33.13       | 338.19                 | -15.74                  | 353.93                    | 0.956             | Level 1            |           |
| 13,800.00                         | 5,605.00              | 13,706.40             | 5,530.00              | 238.31           | 122.73        | -77.19                | 8,195.62                            | -33.12       | 338.19                 | -20.05                  | 358.24                    | 0.944             | Level 1            |           |
| 13,900.00                         | 5,605.00              | 13,806.40             | 5,530.00              | 241.18           | 124.19        | -77.19                | 8,295.62                            | -33.12       | 338.19                 | -24.37                  | 362.55                    | 0.933             | Level 1            |           |
| 14,000.00                         | 5,605.00              | 13,906.40             | 5,530.00              | 244.05           | 125.65        | -77.19                | 8,395.62                            | -33.12       | 338.19                 | -28.68                  | 366.87                    | 0.922             | Level 1            |           |
| 14,100.00                         | 5,605.00              | 14,006.40             | 5,530.00              | 246.92           | 127.11        | -77.19                | 8,495.62                            | -33.11       | 338.19                 | -32.99                  | 371.18                    | 0.911             | Level 1            |           |
| 14,200.00                         | 5,605.00              | 14,106.40             | 5,530.00              | 249.79           | 128.57        | -77.19                | 8,595.62                            | -33.11       | 338.19                 | -37.30                  | 375.49                    | 0.901             | Level 1            |           |
| 14,300.00                         | 5,605.00              | 14,206.40             | 5,530.00              | 252.67           | 130.02        | -77.19                | 8,695.62                            | -33.11       | 338.19                 | -41.62                  | 379.81                    | 0.890             | Level 1            |           |
| 14,400.00                         | 5,605.00              | 14,306.40             | 5,530.00              | 255.54           | 131.48        | -77.19                | 8,795.62                            | -33.10       | 338.19                 | -45.93                  | 384.12                    | 0.880             | Level 1            |           |
| 14,500.00                         | 5,605.00              | 14,406.40             | 5,530.00              | 258.41           | 132.94        | -77.19                | 8,895.62                            | -33.10       | 338.19                 | -50.24                  | 388.44                    | 0.871             | Level 1            |           |
| 14,600.00                         | 5,605.00              | 14,506.40             | 5,530.00              | 261.28           | 134.40        | -77.19                | 8,995.62                            | -33.09       | 338.19                 | -54.56                  | 392.75                    | 0.861             | Level 1            |           |
| 14,700.00                         | 5,605.00              | 14,606.40             | 5,530.00              | 264.15           | 135.86        | -77.19                | 9,095.62                            | -33.09       | 338.19                 | -58.87                  | 397.07                    | 0.852             | Level 1            |           |
| 14,800.00                         | 5,605.00              | 14,706.40             | 5,530.00              | 267.03           | 137.32        | -77.19                | 9,195.62                            | -33.09       | 338.19                 | -63.19                  | 401.38                    | 0.843             | Level 1            |           |
| 14,900.00                         | 5,605.00              | 14,806.40             | 5,530.00              | 269.90           | 138.78        | -77.19                | 9,295.62                            | -33.08       | 338.20                 | -67.51                  | 405.70                    | 0.834             | Level 1            |           |
| 15,000.00                         | 5,605.00              | 14,906.40             | 5,530.00              | 272.77           | 140.24        | -77.19                | 9,395.62                            | -33.08       | 338.20                 | -71.82                  | 410.02                    | 0.825             | Level 1            |           |
| 15,100.00                         | 5,605.00              | 15,006.40             | 5,530.00              | 275.64           | 141.70        | -77.19                | 9,495.62                            | -33.08       | 338.20                 | -76.14                  | 414.33                    | 0.816             | Level 1            |           |
| 15,200.00                         | 5,605.00              | 15,106.40             | 5,530.00              | 278.52           | 143.16        | -77.19                | 9,595.62                            | -33.07       | 338.20                 | -80.46                  | 418.65                    | 0.808             | Level 1            |           |
| 15,300.00                         | 5,605.00              | 15,206.40             | 5,530.00              | 281.39           | 144.62        | -77.19                | 9,695.62                            | -33.07       | 338.20                 | -84.77                  | 422.97                    | 0.800             | Level 1            |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         | Sec 25-T10N-R58W - Razor #25O-2411 - Hz - APD |       | Offset Site Error:        |                   | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---|-------|---------------------------|-------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |   |       | Offset Well Error:        |                   | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         | Warning                                       |       |                           |                   |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) |   |       | Minimum Separation (usft) | Separation Factor |           |
| 15,400.00                         | 5,605.00              | 15,306.40             | 5,530.00              | 284.26           | 146.09        | -77.19                | 9,795.62                            | -33.07       | 338.20                 | -89.09                  | 427.29  | 0.791 | Level 1                   |                   |           |
| 15,500.00                         | 5,605.00              | 15,406.40             | 5,530.00              | 287.14           | 147.55        | -77.19                | 9,895.62                            | -33.06       | 338.20                 | -93.41                  | 431.61  | 0.784 | Level 1                   |                   |           |
| 15,600.00                         | 5,605.00              | 15,506.40             | 5,530.00              | 290.01           | 149.01        | -77.19                | 9,995.62                            | -33.06       | 338.20                 | -97.73                  | 435.93  | 0.776 | Level 1                   |                   |           |
| 15,700.00                         | 5,605.00              | 15,606.40             | 5,530.00              | 292.88           | 150.47        | -77.19                | 10,095.62                           | -33.06       | 338.20                 | -102.05                 | 440.25  | 0.768 | Level 1                   |                   |           |
| 15,728.89                         | 5,605.00              | 15,635.29             | 5,530.00              | 293.71           | 150.89        | -77.19                | 10,124.52                           | -33.06       | 338.20                 | -103.31                 | 441.51  | 0.766 | Level 1                   |                   |           |
| 15,752.28                         | 5,605.00              | 15,657.65             | 5,530.00              | 294.39           | 151.22        | -77.19                | 10,146.87                           | -33.05       | 338.20                 | -104.29                 | 442.49  | 0.764 | Level 1, ES, SF           |                   |           |



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -130.52               | -50.60                              | -59.22       | 77.89                  |                         |                           |                   |                    |           |
| 100.00                            | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -130.52               | -50.60                              | -59.22       | 77.89                  | 77.63                   | 0.27                      | 292.443           |                    |           |
| 200.00                            | 200.00                | 200.00                | 200.00                | 0.47             | 0.47          | -130.52               | -50.60                              | -59.22       | 77.89                  | 76.95                   | 0.94                      | 82.807            |                    |           |
| 300.00                            | 300.00                | 300.00                | 300.00                | 0.81             | 0.81          | -130.52               | -50.60                              | -59.22       | 77.89                  | 76.28                   | 1.61                      | 48.232 CC         |                    |           |
| 400.00                            | 399.98                | 397.33                | 397.31                | 1.12             | 1.11          | 105.43                | -51.87                              | -60.28       | 80.02                  | 77.79                   | 2.22                      | 35.981            |                    |           |
| 500.00                            | 499.84                | 494.28                | 494.13                | 1.43             | 1.40          | 107.96                | -55.65                              | -63.45       | 86.51                  | 83.67                   | 2.84                      | 30.462            |                    |           |
| 600.00                            | 599.49                | 593.47                | 593.08                | 1.78             | 1.71          | 111.62                | -60.94                              | -67.89       | 96.06                  | 92.55                   | 3.51                      | 27.368            |                    |           |
| 700.00                            | 699.11                | 692.80                | 692.17                | 2.17             | 2.03          | 114.90                | -66.25                              | -72.35       | 106.14                 | 101.94                  | 4.20                      | 25.286            |                    |           |
| 800.00                            | 798.73                | 792.12                | 791.25                | 2.56             | 2.37          | 117.61                | -71.56                              | -76.80       | 116.50                 | 111.60                  | 4.90                      | 23.776            |                    |           |
| 900.00                            | 898.35                | 891.44                | 890.33                | 2.96             | 2.71          | 119.87                | -76.87                              | -81.25       | 127.08                 | 121.47                  | 5.61                      | 22.643            |                    |           |
| 1,000.00                          | 997.97                | 990.77                | 989.41                | 3.37             | 3.06          | 121.78                | -82.17                              | -85.71       | 137.83                 | 131.50                  | 6.33                      | 21.771            |                    |           |
| 1,100.00                          | 1,097.59              | 1,090.09              | 1,088.49              | 3.78             | 3.40          | 123.42                | -87.48                              | -90.16       | 148.70                 | 141.65                  | 7.05                      | 21.085            |                    |           |
| 1,200.00                          | 1,197.21              | 1,189.42              | 1,187.57              | 4.19             | 3.75          | 124.83                | -92.79                              | -94.61       | 159.68                 | 151.91                  | 7.78                      | 20.533            |                    |           |
| 1,300.00                          | 1,296.83              | 1,288.74              | 1,286.66              | 4.61             | 4.10          | 126.06                | -98.10                              | -99.07       | 170.74                 | 162.24                  | 8.50                      | 20.081            |                    |           |
| 1,400.00                          | 1,396.45              | 1,388.06              | 1,385.74              | 5.03             | 4.45          | 127.14                | -103.40                             | -103.52      | 181.87                 | 172.64                  | 9.23                      | 19.705            |                    |           |
| 1,500.00                          | 1,496.07              | 1,487.39              | 1,484.82              | 5.44             | 4.80          | 128.09                | -108.71                             | -107.97      | 193.06                 | 183.10                  | 9.96                      | 19.387            |                    |           |
| 1,600.00                          | 1,595.69              | 1,586.71              | 1,583.90              | 5.86             | 5.16          | 128.94                | -114.02                             | -112.43      | 204.30                 | 193.61                  | 10.69                     | 19.117            |                    |           |
| 1,700.00                          | 1,695.31              | 1,686.04              | 1,682.98              | 6.28             | 5.51          | 129.70                | -119.33                             | -116.88      | 215.57                 | 204.15                  | 11.42                     | 18.883            |                    |           |
| 1,800.00                          | 1,794.93              | 1,785.36              | 1,782.07              | 6.70             | 5.86          | 130.39                | -124.63                             | -121.34      | 226.88                 | 214.73                  | 12.15                     | 18.680            |                    |           |
| 1,900.00                          | 1,894.55              | 1,884.68              | 1,881.15              | 7.12             | 6.21          | 131.01                | -129.94                             | -125.79      | 238.21                 | 225.34                  | 12.87                     | 18.502            |                    |           |
| 2,000.00                          | 1,994.17              | 1,984.01              | 1,980.23              | 7.54             | 6.57          | 131.57                | -135.25                             | -130.24      | 249.57                 | 235.97                  | 13.60                     | 18.345            |                    |           |
| 2,100.00                          | 2,093.78              | 2,083.33              | 2,079.31              | 7.96             | 6.92          | 132.09                | -140.56                             | -134.70      | 260.96                 | 246.62                  | 14.33                     | 18.204            |                    |           |
| 2,200.00                          | 2,193.40              | 2,182.65              | 2,178.39              | 8.38             | 7.27          | 132.56                | -145.86                             | -139.15      | 272.36                 | 257.30                  | 15.07                     | 18.079            |                    |           |
| 2,300.00                          | 2,293.02              | 2,281.98              | 2,277.48              | 8.80             | 7.63          | 133.00                | -151.17                             | -143.60      | 283.78                 | 267.98                  | 15.80                     | 17.966            |                    |           |
| 2,400.00                          | 2,392.64              | 2,381.30              | 2,376.56              | 9.22             | 7.98          | 133.40                | -156.48                             | -148.06      | 295.21                 | 278.69                  | 16.53                     | 17.864            |                    |           |
| 2,500.00                          | 2,492.26              | 2,480.63              | 2,475.64              | 9.64             | 8.33          | 133.77                | -161.79                             | -152.51      | 306.66                 | 289.41                  | 17.26                     | 17.771            |                    |           |
| 2,600.00                          | 2,591.88              | 2,579.95              | 2,574.72              | 10.07            | 8.69          | 134.11                | -167.09                             | -156.96      | 318.12                 | 300.13                  | 17.99                     | 17.686            |                    |           |
| 2,700.00                          | 2,691.50              | 2,679.27              | 2,673.80              | 10.49            | 9.04          | 134.43                | -172.40                             | -161.42      | 329.59                 | 310.87                  | 18.72                     | 17.609            |                    |           |
| 2,800.00                          | 2,791.12              | 2,778.60              | 2,772.88              | 10.91            | 9.40          | 134.73                | -177.71                             | -165.87      | 341.07                 | 321.62                  | 19.45                     | 17.537            |                    |           |
| 2,900.00                          | 2,890.74              | 2,877.92              | 2,871.97              | 11.33            | 9.75          | 135.01                | -183.02                             | -170.32      | 352.56                 | 332.38                  | 20.18                     | 17.471            |                    |           |
| 3,000.00                          | 2,990.36              | 2,977.25              | 2,971.05              | 11.75            | 10.11         | 135.27                | -188.32                             | -174.78      | 364.05                 | 343.14                  | 20.91                     | 17.411            |                    |           |
| 3,100.00                          | 3,089.98              | 3,076.57              | 3,070.13              | 12.18            | 10.46         | 135.51                | -193.63                             | -179.23      | 375.56                 | 353.91                  | 21.64                     | 17.354            |                    |           |
| 3,200.00                          | 3,189.60              | 3,175.89              | 3,169.21              | 12.60            | 10.81         | 135.74                | -198.94                             | -183.69      | 387.06                 | 364.69                  | 22.37                     | 17.302            |                    |           |
| 3,300.00                          | 3,289.22              | 3,275.22              | 3,268.29              | 13.02            | 11.17         | 135.96                | -204.25                             | -188.14      | 398.58                 | 375.48                  | 23.10                     | 17.253            |                    |           |
| 3,400.00                          | 3,388.84              | 3,374.54              | 3,367.38              | 13.44            | 11.52         | 136.17                | -209.55                             | -192.59      | 410.10                 | 386.27                  | 23.83                     | 17.207            |                    |           |
| 3,500.00                          | 3,488.46              | 3,482.98              | 3,475.62              | 13.86            | 11.87         | 136.49                | -214.43                             | -196.68      | 420.82                 | 396.27                  | 24.55                     | 17.140            |                    |           |
| 3,600.00                          | 3,588.08              | 3,594.90              | 3,587.51              | 14.29            | 12.19         | 137.18                | -216.26                             | -198.22      | 428.78                 | 403.53                  | 25.24                     | 16.985            |                    |           |
| 3,700.00                          | 3,687.70              | 3,695.09              | 3,687.70              | 14.71            | 12.47         | 137.96                | -216.26                             | -198.22      | 435.22                 | 409.32                  | 25.90                     | 16.803            |                    |           |
| 3,800.00                          | 3,787.32              | 3,794.70              | 3,787.32              | 15.13            | 12.73         | 138.71                | -216.26                             | -198.22      | 441.74                 | 415.21                  | 26.53                     | 16.650            |                    |           |
| 3,900.00                          | 3,886.94              | 3,894.32              | 3,886.94              | 15.55            | 13.00         | 139.45                | -216.26                             | -198.22      | 448.34                 | 421.18                  | 27.16                     | 16.507            |                    |           |
| 4,000.00                          | 3,986.55              | 3,993.94              | 3,986.55              | 15.98            | 13.27         | 140.16                | -216.26                             | -198.22      | 455.01                 | 427.22                  | 27.79                     | 16.372            |                    |           |
| 4,100.00                          | 4,086.17              | 4,093.56              | 4,086.17              | 16.40            | 13.54         | 140.85                | -216.26                             | -198.22      | 461.75                 | 433.32                  | 28.43                     | 16.244            |                    |           |
| 4,200.00                          | 4,185.79              | 4,193.18              | 4,185.79              | 16.82            | 13.81         | 141.52                | -216.26                             | -198.22      | 468.55                 | 439.49                  | 29.06                     | 16.123            |                    |           |
| 4,300.00                          | 4,285.41              | 4,292.80              | 4,285.41              | 17.25            | 14.09         | 142.18                | -216.26                             | -198.22      | 475.41                 | 445.71                  | 29.70                     | 16.009            |                    |           |
| 4,400.00                          | 4,385.03              | 4,392.42              | 4,385.03              | 17.67            | 14.37         | 142.81                | -216.26                             | -198.22      | 482.33                 | 452.00                  | 30.33                     | 15.901            |                    |           |
| 4,500.00                          | 4,484.69              | 4,492.08              | 4,484.69              | 18.06            | 14.65         | 143.43                | -216.26                             | -198.22      | 488.97                 | 458.05                  | 30.92                     | 15.815            |                    |           |
| 4,600.00                          | 4,584.55              | 4,591.93              | 4,584.55              | 18.32            | 14.93         | 143.85                | -216.26                             | -198.22      | 493.18                 | 461.79                  | 31.40                     | 15.708            |                    |           |
| 4,700.00                          | 4,684.52              | 4,691.91              | 4,684.52              | 18.58            | 15.22         | -91.02                | -216.26                             | -198.22      | 494.59                 | 462.65                  | 31.94                     | 15.485            |                    |           |
| 4,800.00                          | 4,784.53              | 4,791.91              | 4,784.53              | 18.82            | 15.51         | -91.02                | -216.26                             | -198.22      | 494.59                 | 462.09                  | 32.50                     | 15.218            |                    |           |
| 4,900.00                          | 4,884.53              | 4,891.91              | 4,884.53              | 19.06            | 15.80         | -91.02                | -216.26                             | -198.22      | 494.59                 | 461.55                  | 33.05                     | 14.967            |                    |           |
| 5,000.00                          | 4,984.53              | 4,991.91              | 4,984.53              | 19.30            | 16.09         | -91.02                | -216.26                             | -198.22      | 494.59                 | 461.00                  | 33.60                     | 14.722            |                    |           |
| 5,066.53                          | 5,051.06              | 5,058.45              | 5,051.06              | 19.46            | 16.29         | -91.02                | -216.26                             | -198.22      | 494.59                 | 460.63                  | 33.96                     | 14.562            |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,099.99                          | 5,084.51              | 5,091.90              | 5,084.51              | 19.54            | 16.38         | -91.02                | -216.26                             | -198.22      | 494.59                 | 460.44                  | 34.15                     | 14.483            |                    |           |
| 5,200.00                          | 5,183.90              | 5,191.29              | 5,183.90              | 19.73            | 16.68         | -92.10                | -216.26                             | -198.22      | 494.86                 | 460.18                  | 34.68                     | 14.268            |                    |           |
| 5,300.00                          | 5,279.62              | 5,293.49              | 5,285.81              | 19.81            | 16.98         | -94.67                | -210.44                             | -198.22      | 496.26                 | 461.08                  | 35.17                     | 14.109            |                    |           |
| 5,400.00                          | 5,368.15              | 5,401.94              | 5,390.60              | 19.82            | 17.27         | -97.21                | -183.25                             | -198.22      | 498.65                 | 462.98                  | 35.67                     | 13.979            |                    |           |
| 5,500.00                          | 5,446.24              | 5,516.19              | 5,492.38              | 19.80            | 17.56         | -99.53                | -131.86                             | -198.22      | 501.70                 | 465.54                  | 36.16                     | 13.874            |                    |           |
| 5,600.00                          | 5,511.03              | 5,636.25              | 5,584.58              | 19.76            | 17.82         | -101.50               | -55.38                              | -198.22      | 504.89                 | 468.13                  | 36.76                     | 13.734            |                    |           |
| 5,700.00                          | 5,560.13              | 5,761.55              | 5,659.50              | 19.76            | 18.07         | -102.99               | 44.67                               | -198.22      | 507.65                 | 470.00                  | 37.65                     | 13.484            |                    |           |
| 5,800.00                          | 5,591.74              | 5,890.75              | 5,709.51              | 20.35            | 18.45         | -103.88               | 163.45                              | -198.22      | 509.45                 | 470.47                  | 38.98                     | 13.070            |                    |           |
| 5,900.00                          | 5,604.70              | 6,021.88              | 5,728.87              | 21.61            | 19.00         | -104.10               | 292.79                              | -198.22      | 509.90                 | 469.08                  | 40.82                     | 12.491            |                    |           |
| 5,954.56                          | 5,606.05              | 6,079.24              | 5,729.00              | 22.44            | 19.28         | -103.96               | 350.15                              | -198.23      | 509.60                 | 467.61                  | 41.98                     | 12.138            |                    |           |
| 6,000.00                          | 5,605.00              | 6,124.70              | 5,729.00              | 23.15            | 19.53         | -104.08               | 395.61                              | -198.23      | 509.85                 | 466.96                  | 42.89                     | 11.886            |                    |           |
| 6,100.00                          | 5,605.00              | 6,224.70              | 5,729.00              | 24.91            | 20.14         | -104.08               | 495.61                              | -198.23      | 509.86                 | 464.60                  | 45.26                     | 11.264            |                    |           |
| 6,200.00                          | 5,605.00              | 6,324.70              | 5,729.00              | 26.86            | 20.84         | -104.08               | 595.61                              | -198.23      | 509.86                 | 461.96                  | 47.91                     | 10.642            |                    |           |
| 6,300.00                          | 5,605.00              | 6,424.70              | 5,729.00              | 28.95            | 21.61         | -104.08               | 695.61                              | -198.23      | 509.87                 | 459.09                  | 50.78                     | 10.040            |                    |           |
| 6,400.00                          | 5,605.00              | 6,524.70              | 5,729.00              | 31.17            | 22.46         | -104.07               | 795.61                              | -198.23      | 509.87                 | 456.03                  | 53.85                     | 9.469             |                    |           |
| 6,500.00                          | 5,605.00              | 6,624.70              | 5,729.00              | 33.49            | 23.36         | -104.07               | 895.61                              | -198.23      | 509.88                 | 452.81                  | 57.07                     | 8.935             |                    |           |
| 6,600.00                          | 5,605.00              | 6,724.70              | 5,729.00              | 35.88            | 24.32         | -104.07               | 995.61                              | -198.23      | 509.88                 | 449.46                  | 60.42                     | 8.439             |                    |           |
| 6,700.00                          | 5,605.00              | 6,824.70              | 5,729.00              | 38.34            | 25.33         | -104.07               | 1,095.61                            | -198.23      | 509.89                 | 446.00                  | 63.89                     | 7.981             |                    |           |
| 6,800.00                          | 5,605.00              | 6,924.70              | 5,729.00              | 40.85            | 26.39         | -104.07               | 1,195.61                            | -198.23      | 509.89                 | 442.45                  | 67.45                     | 7.560             |                    |           |
| 6,900.00                          | 5,605.00              | 7,024.70              | 5,729.00              | 43.41            | 27.48         | -104.07               | 1,295.61                            | -198.24      | 509.90                 | 438.81                  | 71.09                     | 7.173             |                    |           |
| 7,000.00                          | 5,605.00              | 7,124.70              | 5,729.00              | 46.00            | 28.61         | -104.07               | 1,395.61                            | -198.24      | 509.90                 | 435.10                  | 74.80                     | 6.817             |                    |           |
| 7,100.00                          | 5,605.00              | 7,224.70              | 5,729.00              | 48.63            | 29.76         | -104.07               | 1,495.61                            | -198.24      | 509.91                 | 431.34                  | 78.57                     | 6.490             |                    |           |
| 7,200.00                          | 5,605.00              | 7,324.70              | 5,729.00              | 51.28            | 30.95         | -104.07               | 1,595.61                            | -198.24      | 509.91                 | 427.52                  | 82.39                     | 6.189             |                    |           |
| 7,300.00                          | 5,605.00              | 7,424.70              | 5,729.00              | 53.96            | 32.15         | -104.07               | 1,695.61                            | -198.24      | 509.92                 | 423.66                  | 86.26                     | 5.911             |                    |           |
| 7,400.00                          | 5,605.00              | 7,524.70              | 5,729.00              | 56.65            | 33.38         | -104.07               | 1,795.61                            | -198.24      | 509.92                 | 419.76                  | 90.17                     | 5.655             |                    |           |
| 7,500.00                          | 5,605.00              | 7,624.70              | 5,729.00              | 59.37            | 34.63         | -104.07               | 1,895.61                            | -198.24      | 509.93                 | 415.82                  | 94.11                     | 5.418             |                    |           |
| 7,600.00                          | 5,605.00              | 7,724.70              | 5,729.00              | 62.10            | 35.89         | -104.07               | 1,995.61                            | -198.24      | 509.94                 | 411.85                  | 98.08                     | 5.199             |                    |           |
| 7,700.00                          | 5,605.00              | 7,824.70              | 5,729.00              | 64.84            | 37.17         | -104.07               | 2,095.61                            | -198.24      | 509.94                 | 407.86                  | 102.08                    | 4.995             |                    |           |
| 7,800.00                          | 5,605.00              | 7,924.70              | 5,729.00              | 67.59            | 38.47         | -104.07               | 2,195.61                            | -198.25      | 509.95                 | 403.84                  | 106.11                    | 4.806             |                    |           |
| 7,900.00                          | 5,605.00              | 8,024.70              | 5,729.00              | 70.35            | 39.77         | -104.07               | 2,295.61                            | -198.25      | 509.95                 | 399.80                  | 110.15                    | 4.630             |                    |           |
| 8,000.00                          | 5,605.00              | 8,124.70              | 5,729.00              | 73.12            | 41.09         | -104.07               | 2,395.61                            | -198.25      | 509.96                 | 395.74                  | 114.22                    | 4.465             |                    |           |
| 8,100.00                          | 5,605.00              | 8,224.70              | 5,729.00              | 75.90            | 42.42         | -104.07               | 2,495.61                            | -198.25      | 509.96                 | 391.66                  | 118.30                    | 4.311             |                    |           |
| 8,200.00                          | 5,605.00              | 8,324.70              | 5,729.00              | 78.69            | 43.75         | -104.07               | 2,595.61                            | -198.25      | 509.97                 | 387.57                  | 122.40                    | 4.166             |                    |           |
| 8,300.00                          | 5,605.00              | 8,424.70              | 5,729.00              | 81.48            | 45.10         | -104.07               | 2,695.61                            | -198.25      | 509.97                 | 383.46                  | 126.51                    | 4.031             |                    |           |
| 8,400.00                          | 5,605.00              | 8,524.70              | 5,729.00              | 84.28            | 46.45         | -104.07               | 2,795.61                            | -198.25      | 509.98                 | 379.34                  | 130.64                    | 3.904             |                    |           |
| 8,500.00                          | 5,605.00              | 8,624.70              | 5,729.00              | 87.08            | 47.81         | -104.07               | 2,895.61                            | -198.25      | 509.98                 | 375.21                  | 134.77                    | 3.784             |                    |           |
| 8,600.00                          | 5,605.00              | 8,724.70              | 5,729.00              | 89.89            | 49.17         | -104.07               | 2,995.61                            | -198.25      | 509.99                 | 371.06                  | 138.92                    | 3.671             |                    |           |
| 8,700.00                          | 5,605.00              | 8,824.70              | 5,729.00              | 92.71            | 50.55         | -104.07               | 3,095.61                            | -198.25      | 509.99                 | 366.91                  | 143.08                    | 3.564             |                    |           |
| 8,800.00                          | 5,605.00              | 8,924.70              | 5,729.00              | 95.52            | 51.92         | -104.07               | 3,195.61                            | -198.26      | 510.00                 | 362.75                  | 147.25                    | 3.464             |                    |           |
| 8,900.00                          | 5,605.00              | 9,024.70              | 5,729.00              | 98.34            | 53.31         | -104.07               | 3,295.61                            | -198.26      | 510.00                 | 358.58                  | 151.42                    | 3.368             |                    |           |
| 9,000.00                          | 5,605.00              | 9,124.70              | 5,729.00              | 101.17           | 54.69         | -104.07               | 3,395.61                            | -198.26      | 510.01                 | 354.40                  | 155.61                    | 3.278             |                    |           |
| 9,100.00                          | 5,605.00              | 9,224.70              | 5,729.00              | 104.00           | 56.08         | -104.07               | 3,495.61                            | -198.26      | 510.01                 | 350.22                  | 159.80                    | 3.192             |                    |           |
| 9,200.00                          | 5,605.00              | 9,324.70              | 5,729.00              | 106.83           | 57.48         | -104.07               | 3,595.61                            | -198.26      | 510.02                 | 346.02                  | 163.99                    | 3.110             |                    |           |
| 9,300.00                          | 5,605.00              | 9,424.70              | 5,729.00              | 109.66           | 58.88         | -104.07               | 3,695.61                            | -198.26      | 510.02                 | 341.83                  | 168.19                    | 3.032             |                    |           |
| 9,400.00                          | 5,605.00              | 9,524.70              | 5,729.00              | 112.49           | 60.28         | -104.07               | 3,795.61                            | -198.26      | 510.03                 | 337.62                  | 172.40                    | 2.958             |                    |           |
| 9,500.00                          | 5,605.00              | 9,624.70              | 5,729.00              | 115.33           | 61.69         | -104.07               | 3,895.61                            | -198.26      | 510.03                 | 333.41                  | 176.62                    | 2.888             |                    |           |
| 9,600.00                          | 5,605.00              | 9,724.70              | 5,729.00              | 118.17           | 63.10         | -104.07               | 3,995.61                            | -198.26      | 510.04                 | 329.20                  | 180.83                    | 2.820             |                    |           |
| 9,700.00                          | 5,605.00              | 9,824.70              | 5,729.00              | 121.01           | 64.51         | -104.07               | 4,095.61                            | -198.27      | 510.04                 | 324.98                  | 185.06                    | 2.756             |                    |           |
| 9,800.00                          | 5,605.00              | 9,924.70              | 5,729.00              | 123.85           | 65.92         | -104.07               | 4,195.61                            | -198.27      | 510.05                 | 320.76                  | 189.29                    | 2.695             |                    |           |
| 9,900.00                          | 5,605.00              | 10,024.70             | 5,729.00              | 126.70           | 67.34         | -104.07               | 4,295.61                            | -198.27      | 510.05                 | 316.53                  | 193.52                    | 2.636             |                    |           |
| 10,000.00                         | 5,605.00              | 10,124.70             | 5,729.00              | 129.54           | 68.76         | -104.07               | 4,395.61                            | -198.27      | 510.06                 | 312.31                  | 197.75                    | 2.579             |                    |           |
| 10,100.00                         | 5,605.00              | 10,224.70             | 5,729.00              | 132.39           | 70.18         | -104.07               | 4,495.61                            | -198.27      | 510.06                 | 308.07                  | 201.99                    | 2.525             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 10,200.00                         | 5,605.00              | 10,324.70             | 5,729.00              | 135.24           | 71.60         | -104.07               | 4,595.61                            | -198.27      | 510.07                 | 303.84                  | 206.23                    | 2.473             |                    |           |
| 10,300.00                         | 5,605.00              | 10,424.70             | 5,729.00              | 138.09           | 73.03         | -104.07               | 4,695.61                            | -198.27      | 510.07                 | 299.60                  | 210.48                    | 2.423             |                    |           |
| 10,400.00                         | 5,605.00              | 10,524.70             | 5,729.00              | 140.94           | 74.45         | -104.07               | 4,795.61                            | -198.27      | 510.08                 | 295.35                  | 214.72                    | 2.376             |                    |           |
| 10,500.00                         | 5,605.00              | 10,624.70             | 5,729.00              | 143.80           | 75.88         | -104.07               | 4,895.61                            | -198.27      | 510.08                 | 291.11                  | 218.97                    | 2.329             |                    |           |
| 10,600.00                         | 5,605.00              | 10,724.70             | 5,729.00              | 146.65           | 77.31         | -104.07               | 4,995.61                            | -198.27      | 510.09                 | 286.86                  | 223.23                    | 2.285             |                    |           |
| 10,700.00                         | 5,605.00              | 10,824.70             | 5,729.00              | 149.51           | 78.74         | -104.07               | 5,095.61                            | -198.28      | 510.09                 | 282.61                  | 227.48                    | 2.242             |                    |           |
| 10,800.00                         | 5,605.00              | 10,924.70             | 5,729.00              | 152.36           | 80.18         | -104.07               | 5,195.61                            | -198.28      | 510.10                 | 278.36                  | 231.74                    | 2.201             |                    |           |
| 10,900.00                         | 5,605.00              | 11,024.70             | 5,729.00              | 155.22           | 81.61         | -104.07               | 5,295.61                            | -198.28      | 510.10                 | 274.10                  | 236.00                    | 2.161             |                    |           |
| 11,000.00                         | 5,605.00              | 11,124.70             | 5,729.00              | 158.08           | 83.05         | -104.07               | 5,395.61                            | -198.28      | 510.11                 | 269.85                  | 240.26                    | 2.123             |                    |           |
| 11,100.00                         | 5,605.00              | 11,224.70             | 5,729.00              | 160.93           | 84.48         | -104.07               | 5,495.61                            | -198.28      | 510.11                 | 265.59                  | 244.52                    | 2.086             |                    |           |
| 11,200.00                         | 5,605.00              | 11,324.70             | 5,729.00              | 163.79           | 85.92         | -104.07               | 5,595.61                            | -198.28      | 510.12                 | 261.33                  | 248.79                    | 2.050             |                    |           |
| 11,300.00                         | 5,605.00              | 11,424.70             | 5,729.00              | 166.65           | 87.36         | -104.07               | 5,695.61                            | -198.28      | 510.12                 | 257.06                  | 253.06                    | 2.016             |                    |           |
| 11,400.00                         | 5,605.00              | 11,524.70             | 5,729.00              | 169.51           | 88.80         | -104.07               | 5,795.61                            | -198.28      | 510.13                 | 252.80                  | 257.33                    | 1.982             |                    |           |
| 11,500.00                         | 5,605.00              | 11,624.70             | 5,729.00              | 172.37           | 90.24         | -104.07               | 5,895.61                            | -198.28      | 510.13                 | 248.53                  | 261.60                    | 1.950             |                    |           |
| 11,600.00                         | 5,605.00              | 11,724.70             | 5,729.00              | 175.24           | 91.69         | -104.07               | 5,995.61                            | -198.29      | 510.14                 | 244.27                  | 265.87                    | 1.919             |                    |           |
| 11,700.00                         | 5,605.00              | 11,824.70             | 5,729.00              | 178.10           | 93.13         | -104.07               | 6,095.61                            | -198.29      | 510.14                 | 240.00                  | 270.14                    | 1.888             |                    |           |
| 11,800.00                         | 5,605.00              | 11,924.70             | 5,729.00              | 180.96           | 94.57         | -104.07               | 6,195.61                            | -198.29      | 510.15                 | 235.73                  | 274.42                    | 1.859             |                    |           |
| 11,900.00                         | 5,605.00              | 12,024.70             | 5,729.00              | 183.83           | 96.02         | -104.07               | 6,295.61                            | -198.29      | 510.15                 | 231.46                  | 278.70                    | 1.831             |                    |           |
| 12,000.00                         | 5,605.00              | 12,124.70             | 5,729.00              | 186.69           | 97.47         | -104.07               | 6,395.61                            | -198.29      | 510.16                 | 227.18                  | 282.97                    | 1.803             |                    |           |
| 12,100.00                         | 5,605.00              | 12,224.70             | 5,729.00              | 189.55           | 98.91         | -104.07               | 6,495.61                            | -198.29      | 510.16                 | 222.91                  | 287.25                    | 1.776             |                    |           |
| 12,200.00                         | 5,605.00              | 12,324.70             | 5,729.00              | 192.42           | 100.36        | -104.07               | 6,595.61                            | -198.29      | 510.17                 | 218.64                  | 291.53                    | 1.750             |                    |           |
| 12,300.00                         | 5,605.00              | 12,424.70             | 5,729.00              | 195.28           | 101.81        | -104.07               | 6,695.61                            | -198.29      | 510.17                 | 214.36                  | 295.81                    | 1.725             |                    |           |
| 12,400.00                         | 5,605.00              | 12,524.70             | 5,729.00              | 198.15           | 103.26        | -104.07               | 6,795.61                            | -198.29      | 510.18                 | 210.08                  | 300.09                    | 1.700             |                    |           |
| 12,500.00                         | 5,605.00              | 12,624.70             | 5,729.00              | 201.02           | 104.71        | -104.07               | 6,895.61                            | -198.29      | 510.18                 | 205.80                  | 304.38                    | 1.676             |                    |           |
| 12,600.00                         | 5,605.00              | 12,724.70             | 5,729.00              | 203.88           | 106.16        | -104.07               | 6,995.61                            | -198.30      | 510.19                 | 201.53                  | 308.66                    | 1.653             |                    |           |
| 12,700.00                         | 5,605.00              | 12,824.70             | 5,729.00              | 206.75           | 107.61        | -104.07               | 7,095.61                            | -198.30      | 510.19                 | 197.25                  | 312.95                    | 1.630             |                    |           |
| 12,800.00                         | 5,605.00              | 12,924.70             | 5,729.00              | 209.62           | 109.06        | -104.07               | 7,195.61                            | -198.30      | 510.20                 | 192.96                  | 317.23                    | 1.608             |                    |           |
| 12,900.00                         | 5,605.00              | 13,024.70             | 5,729.00              | 212.49           | 110.51        | -104.07               | 7,295.61                            | -198.30      | 510.20                 | 188.68                  | 321.52                    | 1.587             |                    |           |
| 13,000.00                         | 5,605.00              | 13,124.70             | 5,729.00              | 215.35           | 111.96        | -104.07               | 7,395.61                            | -198.30      | 510.21                 | 184.40                  | 325.81                    | 1.566             |                    |           |
| 13,100.00                         | 5,605.00              | 13,224.70             | 5,729.00              | 218.22           | 113.41        | -104.07               | 7,495.61                            | -198.30      | 510.21                 | 180.12                  | 330.10                    | 1.546             |                    |           |
| 13,200.00                         | 5,605.00              | 13,324.70             | 5,729.00              | 221.09           | 114.87        | -104.07               | 7,595.61                            | -198.30      | 510.22                 | 175.83                  | 334.38                    | 1.526             |                    |           |
| 13,300.00                         | 5,605.00              | 13,424.70             | 5,729.00              | 223.96           | 116.32        | -104.07               | 7,695.61                            | -198.30      | 510.22                 | 171.55                  | 338.67                    | 1.507             |                    |           |
| 13,400.00                         | 5,605.00              | 13,524.70             | 5,729.00              | 226.83           | 117.77        | -104.06               | 7,795.61                            | -198.30      | 510.23                 | 167.26                  | 342.97                    | 1.488 Level 3     |                    |           |
| 13,500.00                         | 5,605.00              | 13,624.70             | 5,729.00              | 229.70           | 119.23        | -104.06               | 7,895.61                            | -198.31      | 510.23                 | 162.98                  | 347.26                    | 1.469 Level 3     |                    |           |
| 13,600.00                         | 5,605.00              | 13,724.70             | 5,729.00              | 232.57           | 120.68        | -104.06               | 7,995.61                            | -198.31      | 510.24                 | 158.69                  | 351.55                    | 1.451 Level 3     |                    |           |
| 13,700.00                         | 5,605.00              | 13,824.70             | 5,729.00              | 235.44           | 122.14        | -104.06               | 8,095.61                            | -198.31      | 510.24                 | 154.40                  | 355.84                    | 1.434 Level 3     |                    |           |
| 13,800.00                         | 5,605.00              | 13,924.70             | 5,729.00              | 238.31           | 123.59        | -104.06               | 8,195.61                            | -198.31      | 510.25                 | 150.11                  | 360.13                    | 1.417 Level 3     |                    |           |
| 13,900.00                         | 5,605.00              | 14,024.70             | 5,729.00              | 241.18           | 125.05        | -104.06               | 8,295.61                            | -198.31      | 510.25                 | 145.83                  | 364.43                    | 1.400 Level 3     |                    |           |
| 14,000.00                         | 5,605.00              | 14,124.70             | 5,729.00              | 244.05           | 126.51        | -104.06               | 8,395.61                            | -198.31      | 510.26                 | 141.54                  | 368.72                    | 1.384 Level 3     |                    |           |
| 14,100.00                         | 5,605.00              | 14,224.70             | 5,729.00              | 246.92           | 127.96        | -104.06               | 8,495.61                            | -198.31      | 510.26                 | 137.25                  | 373.02                    | 1.368 Level 3     |                    |           |
| 14,200.00                         | 5,605.00              | 14,324.70             | 5,729.00              | 249.79           | 129.42        | -104.06               | 8,595.61                            | -198.31      | 510.27                 | 132.96                  | 377.31                    | 1.352 Level 3     |                    |           |
| 14,300.00                         | 5,605.00              | 14,424.70             | 5,729.00              | 252.67           | 130.88        | -104.06               | 8,695.61                            | -198.31      | 510.27                 | 128.66                  | 381.61                    | 1.337 Level 3     |                    |           |
| 14,400.00                         | 5,605.00              | 14,524.70             | 5,729.00              | 255.54           | 132.34        | -104.06               | 8,795.61                            | -198.31      | 510.28                 | 124.37                  | 385.90                    | 1.322 Level 3     |                    |           |
| 14,500.00                         | 5,605.00              | 14,624.70             | 5,729.00              | 258.41           | 133.79        | -104.06               | 8,895.61                            | -198.32      | 510.28                 | 120.08                  | 390.20                    | 1.308 Level 3     |                    |           |
| 14,600.00                         | 5,605.00              | 14,724.70             | 5,729.00              | 261.28           | 135.25        | -104.06               | 8,995.61                            | -198.32      | 510.29                 | 115.79                  | 394.50                    | 1.294 Level 3     |                    |           |
| 14,700.00                         | 5,605.00              | 14,824.70             | 5,729.00              | 264.15           | 136.71        | -104.06               | 9,095.61                            | -198.32      | 510.29                 | 111.50                  | 398.80                    | 1.280 Level 3     |                    |           |
| 14,800.00                         | 5,605.00              | 14,924.70             | 5,729.00              | 267.03           | 138.17        | -104.06               | 9,195.61                            | -198.32      | 510.30                 | 107.20                  | 403.10                    | 1.266 Level 3     |                    |           |
| 14,900.00                         | 5,605.00              | 15,024.70             | 5,729.00              | 269.90           | 139.63        | -104.06               | 9,295.61                            | -198.32      | 510.30                 | 102.91                  | 407.39                    | 1.253 Level 3     |                    |           |
| 15,000.00                         | 5,605.00              | 15,124.70             | 5,729.00              | 272.77           | 141.09        | -104.06               | 9,395.61                            | -198.32      | 510.31                 | 98.62                   | 411.69                    | 1.240 Level 2     |                    |           |
| 15,100.00                         | 5,605.00              | 15,224.70             | 5,729.00              | 275.64           | 142.55        | -104.06               | 9,495.61                            | -198.32      | 510.31                 | 94.32                   | 415.99                    | 1.227 Level 2     |                    |           |
| 15,200.00                         | 5,605.00              | 15,324.70             | 5,729.00              | 278.52           | 144.01        | -104.06               | 9,595.61                            | -198.32      | 510.32                 | 90.03                   | 420.29                    | 1.214 Level 2     |                    |           |
| 15,300.00                         | 5,605.00              | 15,424.70             | 5,729.00              | 281.39           | 145.47        | -104.06               | 9,695.61                            | -198.32      | 510.32                 | 85.73                   | 424.59                    | 1.202 Level 2     |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| <b>Offset Design</b> Sec 25-T10N-R58W - Razor #25O-2443 - Hz - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft       |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------------|
| Survey Program: 0-MWD+IFR1+MS+sag                                  |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft       |
| Reference  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                           |                 |
| Measured Depth (usft)  | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning         |
| 15,400.00  | 5,605.00              | 15,524.70             | 5,729.00              | 284.26           | 146.93        | -104.06               | 9,795.61                            | -198.33      | 510.33                 | 81.44                   | 428.89                    | 1.190                     | Level 2         |
| 15,500.00  | 5,605.00              | 15,624.70             | 5,729.00              | 287.14           | 148.39        | -104.06               | 9,895.61                            | -198.33      | 510.33                 | 77.14                   | 433.19                    | 1.178                     | Level 2         |
| 15,600.00  | 5,605.00              | 15,724.70             | 5,729.00              | 290.01           | 149.85        | -104.06               | 9,995.61                            | -198.33      | 510.34                 | 72.84                   | 437.50                    | 1.167                     | Level 2         |
| 15,700.00  | 5,605.00              | 15,824.70             | 5,729.00              | 292.88           | 151.31        | -104.06               | 10,095.61                           | -198.33      | 510.34                 | 68.55                   | 441.80                    | 1.155                     | Level 2         |
| 15,728.24  | 5,605.00              | 15,852.94             | 5,729.00              | 293.70           | 151.72        | -104.06               | 10,123.85                           | -198.33      | 510.35                 | 67.32                   | 443.03                    | 1.152                     | Level 2         |
| 15,752.28  | 5,605.00              | 15,874.95             | 5,729.00              | 294.39           | 152.05        | -104.06               | 10,145.86                           | -198.33      | 510.35                 | 66.33                   | 444.02                    | 1.149                     | Level 2, ES, SF |



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 0.00                              | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -149.49               | -49.59                              | -29.22       | 57.56                  |                         |                           |                   |                    |           |
| 100.00                            | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | -149.49               | -49.59                              | -29.22       | 57.56                  | 57.29                   | 0.27                      | 216.110           |                    |           |
| 200.00                            | 200.00                | 200.00                | 200.00                | 0.47             | 0.47          | -149.49               | -49.59                              | -29.22       | 57.56                  | 56.62                   | 0.94                      | 61.193            |                    |           |
| 300.00                            | 300.00                | 300.00                | 300.00                | 0.81             | 0.81          | -149.49               | -49.59                              | -29.22       | 57.56                  | 55.95                   | 1.61                      | 35.642 CC         |                    |           |
| 400.00                            | 399.98                | 399.33                | 399.31                | 1.12             | 1.11          | 85.61                 | -50.91                              | -28.12       | 58.00                  | 55.78                   | 2.23                      | 26.052            |                    |           |
| 500.00                            | 499.84                | 498.81                | 498.66                | 1.43             | 1.42          | 85.97                 | -54.80                              | -24.85       | 59.30                  | 56.46                   | 2.84                      | 20.911            |                    |           |
| 600.00                            | 599.49                | 598.77                | 598.43                | 1.78             | 1.72          | 88.31                 | -59.47                              | -20.93       | 60.76                  | 57.24                   | 3.51                      | 17.304            |                    |           |
| 700.00                            | 699.11                | 698.72                | 698.19                | 2.17             | 2.05          | 90.95                 | -64.15                              | -17.01       | 62.32                  | 58.09                   | 4.22                      | 14.753            |                    |           |
| 800.00                            | 798.73                | 798.67                | 797.95                | 2.56             | 2.39          | 93.45                 | -68.82                              | -13.09       | 64.01                  | 59.05                   | 4.96                      | 12.912            |                    |           |
| 900.00                            | 898.35                | 898.61                | 897.71                | 2.96             | 2.73          | 95.83                 | -73.49                              | -9.17        | 65.81                  | 60.11                   | 5.70                      | 11.542            |                    |           |
| 1,000.00                          | 997.97                | 998.56                | 997.48                | 3.37             | 3.07          | 98.07                 | -78.17                              | -5.24        | 67.72                  | 61.27                   | 6.45                      | 10.493            |                    |           |
| 1,100.00                          | 1,097.59              | 1,098.51              | 1,097.24              | 3.78             | 3.41          | 100.18                | -82.84                              | -1.32        | 69.73                  | 62.52                   | 7.21                      | 9.672             |                    |           |
| 1,200.00                          | 1,197.21              | 1,198.46              | 1,197.00              | 4.19             | 3.76          | 102.18                | -87.52                              | 2.60         | 71.83                  | 63.86                   | 7.97                      | 9.015             |                    |           |
| 1,300.00                          | 1,296.83              | 1,298.40              | 1,296.76              | 4.61             | 4.11          | 104.06                | -92.19                              | 6.52         | 74.01                  | 65.28                   | 8.73                      | 8.481             |                    |           |
| 1,400.00                          | 1,396.45              | 1,398.35              | 1,396.52              | 5.03             | 4.46          | 105.83                | -96.87                              | 10.44        | 76.27                  | 66.78                   | 9.48                      | 8.041             |                    |           |
| 1,500.00                          | 1,496.07              | 1,498.30              | 1,496.28              | 5.44             | 4.80          | 107.49                | -101.54                             | 14.37        | 78.59                  | 68.35                   | 10.24                     | 7.673             |                    |           |
| 1,600.00                          | 1,595.69              | 1,598.25              | 1,596.04              | 5.86             | 5.15          | 109.06                | -106.21                             | 18.29        | 80.98                  | 69.98                   | 11.00                     | 7.362             |                    |           |
| 1,700.00                          | 1,695.31              | 1,698.19              | 1,695.80              | 6.28             | 5.50          | 110.54                | -110.89                             | 22.21        | 83.42                  | 71.67                   | 11.76                     | 7.096             |                    |           |
| 1,800.00                          | 1,794.93              | 1,798.14              | 1,795.56              | 6.70             | 5.85          | 111.94                | -115.56                             | 26.13        | 85.92                  | 73.41                   | 12.51                     | 6.868             |                    |           |
| 1,900.00                          | 1,894.55              | 1,898.09              | 1,895.33              | 7.12             | 6.20          | 113.25                | -120.24                             | 30.05        | 88.46                  | 75.20                   | 13.26                     | 6.670             |                    |           |
| 2,000.00                          | 1,994.17              | 1,998.04              | 1,995.09              | 7.54             | 6.55          | 114.49                | -124.91                             | 33.98        | 91.05                  | 77.04                   | 14.01                     | 6.497             |                    |           |
| 2,100.00                          | 2,093.78              | 2,097.98              | 2,094.85              | 7.96             | 6.91          | 115.66                | -129.58                             | 37.90        | 93.68                  | 78.92                   | 14.76                     | 6.345             |                    |           |
| 2,200.00                          | 2,193.40              | 2,197.93              | 2,194.61              | 8.38             | 7.26          | 116.77                | -134.26                             | 41.82        | 96.35                  | 80.84                   | 15.51                     | 6.211             |                    |           |
| 2,300.00                          | 2,293.02              | 2,297.88              | 2,294.37              | 8.80             | 7.61          | 117.82                | -138.93                             | 45.74        | 99.05                  | 82.79                   | 16.26                     | 6.092             |                    |           |
| 2,400.00                          | 2,392.64              | 2,397.83              | 2,394.13              | 9.22             | 7.96          | 118.81                | -143.61                             | 49.67        | 101.78                 | 84.78                   | 17.00                     | 5.985             |                    |           |
| 2,500.00                          | 2,492.26              | 2,497.77              | 2,493.89              | 9.64             | 8.31          | 119.75                | -148.28                             | 53.59        | 104.54                 | 86.79                   | 17.75                     | 5.890             |                    |           |
| 2,600.00                          | 2,591.88              | 2,597.72              | 2,593.65              | 10.07            | 8.66          | 120.64                | -152.95                             | 57.51        | 107.33                 | 88.84                   | 18.49                     | 5.804             |                    |           |
| 2,700.00                          | 2,691.50              | 2,697.67              | 2,693.42              | 10.49            | 9.01          | 121.49                | -157.63                             | 61.43        | 110.14                 | 90.91                   | 19.23                     | 5.727             |                    |           |
| 2,800.00                          | 2,791.12              | 2,797.62              | 2,793.18              | 10.91            | 9.37          | 122.29                | -162.30                             | 65.35        | 112.97                 | 93.00                   | 19.97                     | 5.656             |                    |           |
| 2,900.00                          | 2,890.74              | 2,897.57              | 2,892.94              | 11.33            | 9.72          | 123.05                | -166.98                             | 69.28        | 115.83                 | 95.12                   | 20.71                     | 5.592             |                    |           |
| 3,000.00                          | 2,990.36              | 2,997.51              | 2,992.70              | 11.75            | 10.07         | 123.78                | -171.65                             | 73.20        | 118.70                 | 97.25                   | 21.45                     | 5.534             |                    |           |
| 3,100.00                          | 3,089.98              | 3,097.46              | 3,092.46              | 12.18            | 10.42         | 124.47                | -176.33                             | 77.12        | 121.60                 | 99.41                   | 22.19                     | 5.480             |                    |           |
| 3,200.00                          | 3,189.60              | 3,197.41              | 3,192.22              | 12.60            | 10.77         | 125.13                | -181.00                             | 81.04        | 124.51                 | 101.58                  | 22.93                     | 5.431             |                    |           |
| 3,300.00                          | 3,289.22              | 3,297.36              | 3,291.98              | 13.02            | 11.12         | 125.76                | -185.67                             | 84.96        | 127.43                 | 103.77                  | 23.66                     | 5.386             |                    |           |
| 3,400.00                          | 3,388.84              | 3,397.30              | 3,391.74              | 13.44            | 11.48         | 126.36                | -190.35                             | 88.89        | 130.37                 | 105.98                  | 24.40                     | 5.344             |                    |           |
| 3,500.00                          | 3,488.46              | 3,497.25              | 3,491.50              | 13.86            | 11.83         | 126.94                | -195.02                             | 92.81        | 133.33                 | 108.20                  | 25.13                     | 5.305             |                    |           |
| 3,600.00                          | 3,588.08              | 3,597.20              | 3,591.27              | 14.29            | 12.18         | 127.49                | -199.70                             | 96.73        | 136.29                 | 110.43                  | 25.86                     | 5.270             |                    |           |
| 3,700.00                          | 3,687.70              | 3,697.15              | 3,691.03              | 14.71            | 12.53         | 128.01                | -204.37                             | 100.65       | 139.27                 | 112.68                  | 26.60                     | 5.237             |                    |           |
| 3,800.00                          | 3,787.32              | 3,797.09              | 3,790.79              | 15.13            | 12.89         | 128.52                | -209.04                             | 104.57       | 142.26                 | 114.94                  | 27.33                     | 5.206             |                    |           |
| 3,900.00                          | 3,886.94              | 3,897.04              | 3,890.55              | 15.55            | 13.24         | 129.00                | -213.72                             | 108.50       | 145.26                 | 117.20                  | 28.06                     | 5.177             |                    |           |
| 4,000.00                          | 3,986.55              | 3,996.99              | 3,990.31              | 15.98            | 13.59         | 129.47                | -218.39                             | 112.42       | 148.28                 | 119.48                  | 28.79                     | 5.150             |                    |           |
| 4,100.00                          | 4,086.17              | 4,096.94              | 4,090.07              | 16.40            | 13.94         | 129.91                | -223.07                             | 116.34       | 151.30                 | 121.77                  | 29.52                     | 5.125             |                    |           |
| 4,200.00                          | 4,185.79              | 4,196.88              | 4,189.83              | 16.82            | 14.29         | 130.34                | -227.74                             | 120.26       | 154.32                 | 124.07                  | 30.25                     | 5.101             |                    |           |
| 4,300.00                          | 4,285.41              | 4,296.83              | 4,289.59              | 17.25            | 14.65         | 130.75                | -232.42                             | 124.18       | 157.36                 | 126.38                  | 30.98                     | 5.079             |                    |           |
| 4,400.00                          | 4,385.03              | 4,396.78              | 4,389.36              | 17.67            | 15.00         | 131.15                | -237.09                             | 128.11       | 160.41                 | 128.69                  | 31.71                     | 5.058             |                    |           |
| 4,500.00                          | 4,484.69              | 4,494.31              | 4,486.78              | 18.06            | 15.29         | 131.92                | -240.46                             | 130.94       | 163.89                 | 131.59                  | 32.30                     | 5.074             |                    |           |
| 4,600.00                          | 4,584.55              | 4,592.08              | 4,584.55              | 18.32            | 15.57         | 132.92                | -241.33                             | 131.67       | 166.88                 | 134.17                  | 32.71                     | 5.101             |                    |           |
| 4,700.00                          | 4,684.52              | 4,692.06              | 4,684.52              | 18.58            | 15.83         | -101.62               | -241.33                             | 131.67       | 168.08                 | 134.90                  | 33.18                     | 5.066             |                    |           |
| 4,800.00                          | 4,784.53              | 4,792.06              | 4,784.53              | 18.82            | 16.10         | -101.62               | -241.33                             | 131.67       | 168.08                 | 134.37                  | 33.70                     | 4.987             |                    |           |
| 4,900.00                          | 4,884.53              | 4,892.06              | 4,884.53              | 19.06            | 16.36         | -101.62               | -241.33                             | 131.67       | 168.08                 | 133.86                  | 34.21                     | 4.913             |                    |           |
| 5,000.00                          | 4,984.53              | 4,992.06              | 4,984.53              | 19.30            | 16.63         | -101.62               | -241.33                             | 131.67       | 168.08                 | 133.34                  | 34.73                     | 4.839             |                    |           |
| 5,066.53                          | 5,051.06              | 5,058.60              | 5,051.06              | 19.46            | 16.81         | -101.63               | -241.33                             | 131.67       | 168.08                 | 133.00                  | 35.08                     | 4.792             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning            |           |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,099.99                          | 5,084.51              | 5,092.05              | 5,084.51              | 19.54            | 16.90         | -101.63               | -241.33                             | 131.67       | 168.08                 | 132.82                  | 35.25                     | 4.768             |                    |           |
| 5,200.00                          | 5,183.90              | 5,191.44              | 5,183.90              | 19.73            | 17.17         | -104.54               | -241.33                             | 131.67       | 170.28                 | 134.30                  | 35.98                     | 4.732             |                    |           |
| 5,300.00                          | 5,279.62              | 5,287.16              | 5,279.62              | 19.81            | 17.44         | -112.05               | -241.33                             | 131.67       | 179.66                 | 142.88                  | 36.78                     | 4.885             |                    |           |
| 5,400.00                          | 5,368.15              | 5,391.92              | 5,384.14              | 19.82            | 17.72         | -122.14               | -236.19                             | 131.67       | 200.30                 | 163.24                  | 37.06                     | 5.405             |                    |           |
| 5,500.00                          | 5,446.24              | 5,515.41              | 5,503.22              | 19.80            | 18.03         | -130.95               | -204.62                             | 131.67       | 225.77                 | 189.43                  | 36.34                     | 6.213             |                    |           |
| 5,600.00                          | 5,511.03              | 5,655.71              | 5,625.14              | 19.76            | 18.35         | -137.56               | -136.04                             | 131.67       | 250.85                 | 215.95                  | 34.90                     | 7.187             |                    |           |
| 5,700.00                          | 5,560.13              | 5,814.10              | 5,735.17              | 19.76            | 18.68         | -141.99               | -22.95                              | 131.68       | 270.79                 | 237.37                  | 33.42                     | 8.102             |                    |           |
| 5,800.00                          | 5,591.74              | 5,987.20              | 5,810.65              | 20.35            | 19.16         | -144.15               | 131.94                              | 131.69       | 281.43                 | 248.60                  | 32.84                     | 8.571             |                    |           |
| 5,900.00                          | 5,604.70              | 6,152.94              | 5,832.00              | 21.61            | 19.85         | -144.07               | 295.62                              | 131.70       | 280.65                 | 246.74                  | 33.91                     | 8.277             |                    |           |
| 5,945.56                          | 5,605.90              | 6,198.48              | 5,832.00              | 22.30            | 20.07         | -143.94               | 341.17                              | 131.70       | 279.68                 | 245.04                  | 34.64                     | 8.074             |                    |           |
| 6,000.00                          | 5,605.00              | 6,252.93              | 5,832.00              | 23.15            | 20.38         | -144.05               | 395.62                              | 131.70       | 280.41                 | 245.00                  | 35.41                     | 7.919             |                    |           |
| 6,100.00                          | 5,605.00              | 6,352.93              | 5,832.00              | 24.91            | 21.00         | -144.05               | 495.62                              | 131.71       | 280.40                 | 243.35                  | 37.05                     | 7.568             |                    |           |
| 6,200.00                          | 5,605.00              | 6,452.93              | 5,832.00              | 26.86            | 21.69         | -144.05               | 595.62                              | 131.71       | 280.40                 | 241.54                  | 38.86                     | 7.215             |                    |           |
| 6,300.00                          | 5,605.00              | 6,552.93              | 5,832.00              | 28.95            | 22.47         | -144.05               | 695.62                              | 131.72       | 280.40                 | 239.60                  | 40.81                     | 6.871             |                    |           |
| 6,400.00                          | 5,605.00              | 6,652.93              | 5,832.00              | 31.17            | 23.31         | -144.05               | 795.62                              | 131.72       | 280.40                 | 237.54                  | 42.87                     | 6.541             |                    |           |
| 6,500.00                          | 5,605.00              | 6,752.93              | 5,832.00              | 33.49            | 24.21         | -144.05               | 895.62                              | 131.73       | 280.40                 | 235.38                  | 45.02                     | 6.228             |                    |           |
| 6,600.00                          | 5,605.00              | 6,852.93              | 5,832.00              | 35.88            | 25.17         | -144.05               | 995.62                              | 131.73       | 280.40                 | 233.14                  | 47.26                     | 5.933             |                    |           |
| 6,700.00                          | 5,605.00              | 6,952.93              | 5,832.00              | 38.34            | 26.17         | -144.05               | 1,095.62                            | 131.74       | 280.40                 | 230.83                  | 49.57                     | 5.657             |                    |           |
| 6,800.00                          | 5,605.00              | 7,052.93              | 5,832.00              | 40.85            | 27.22         | -144.05               | 1,195.62                            | 131.74       | 280.40                 | 228.46                  | 51.94                     | 5.399             |                    |           |
| 6,900.00                          | 5,605.00              | 7,152.93              | 5,832.00              | 43.41            | 28.30         | -144.05               | 1,295.62                            | 131.75       | 280.40                 | 226.04                  | 54.36                     | 5.159             |                    |           |
| 7,000.00                          | 5,605.00              | 7,252.93              | 5,832.00              | 46.00            | 29.42         | -144.05               | 1,395.62                            | 131.75       | 280.40                 | 223.58                  | 56.82                     | 4.935             |                    |           |
| 7,100.00                          | 5,605.00              | 7,352.93              | 5,832.00              | 48.63            | 30.56         | -144.05               | 1,495.62                            | 131.76       | 280.40                 | 221.07                  | 59.33                     | 4.726             |                    |           |
| 7,200.00                          | 5,605.00              | 7,452.93              | 5,832.00              | 51.28            | 31.74         | -144.05               | 1,595.62                            | 131.77       | 280.40                 | 218.53                  | 61.87                     | 4.532             |                    |           |
| 7,300.00                          | 5,605.00              | 7,552.93              | 5,832.00              | 53.96            | 32.94         | -144.05               | 1,695.62                            | 131.77       | 280.40                 | 215.95                  | 64.45                     | 4.351             |                    |           |
| 7,400.00                          | 5,605.00              | 7,652.93              | 5,832.00              | 56.65            | 34.16         | -144.05               | 1,795.62                            | 131.78       | 280.40                 | 213.35                  | 67.05                     | 4.182             |                    |           |
| 7,500.00                          | 5,605.00              | 7,752.93              | 5,832.00              | 59.37            | 35.39         | -144.05               | 1,895.62                            | 131.78       | 280.39                 | 210.72                  | 69.67                     | 4.024             |                    |           |
| 7,600.00                          | 5,605.00              | 7,852.93              | 5,832.00              | 62.10            | 36.65         | -144.05               | 1,995.62                            | 131.79       | 280.39                 | 208.07                  | 72.32                     | 3.877             |                    |           |
| 7,700.00                          | 5,605.00              | 7,952.93              | 5,832.00              | 64.84            | 37.92         | -144.05               | 2,095.62                            | 131.79       | 280.39                 | 205.40                  | 74.99                     | 3.739             |                    |           |
| 7,800.00                          | 5,605.00              | 8,052.93              | 5,832.00              | 67.59            | 39.21         | -144.05               | 2,195.62                            | 131.80       | 280.39                 | 202.71                  | 77.68                     | 3.610             |                    |           |
| 7,900.00                          | 5,605.00              | 8,152.93              | 5,832.00              | 70.35            | 40.50         | -144.05               | 2,295.62                            | 131.80       | 280.39                 | 200.01                  | 80.38                     | 3.488             |                    |           |
| 8,000.00                          | 5,605.00              | 8,252.93              | 5,832.00              | 73.12            | 41.81         | -144.05               | 2,395.62                            | 131.81       | 280.39                 | 197.29                  | 83.10                     | 3.374             |                    |           |
| 8,100.00                          | 5,605.00              | 8,352.93              | 5,832.00              | 75.90            | 43.13         | -144.05               | 2,495.62                            | 131.81       | 280.39                 | 194.56                  | 85.83                     | 3.267             |                    |           |
| 8,200.00                          | 5,605.00              | 8,452.93              | 5,832.00              | 78.69            | 44.46         | -144.05               | 2,595.62                            | 131.82       | 280.39                 | 191.82                  | 88.57                     | 3.166             |                    |           |
| 8,300.00                          | 5,605.00              | 8,552.93              | 5,832.00              | 81.48            | 45.80         | -144.05               | 2,695.62                            | 131.82       | 280.39                 | 189.06                  | 91.33                     | 3.070             |                    |           |
| 8,400.00                          | 5,605.00              | 8,652.93              | 5,832.00              | 84.28            | 47.15         | -144.05               | 2,795.62                            | 131.83       | 280.39                 | 186.30                  | 94.09                     | 2.980             |                    |           |
| 8,500.00                          | 5,605.00              | 8,752.93              | 5,832.00              | 87.08            | 48.50         | -144.06               | 2,895.62                            | 131.83       | 280.39                 | 183.52                  | 96.87                     | 2.895             |                    |           |
| 8,600.00                          | 5,605.00              | 8,852.93              | 5,832.00              | 89.89            | 49.86         | -144.06               | 2,995.62                            | 131.84       | 280.39                 | 180.74                  | 99.65                     | 2.814             |                    |           |
| 8,700.00                          | 5,605.00              | 8,952.93              | 5,832.00              | 92.71            | 51.23         | -144.06               | 3,095.62                            | 131.84       | 280.39                 | 177.95                  | 102.44                    | 2.737             |                    |           |
| 8,800.00                          | 5,605.00              | 9,052.93              | 5,832.00              | 95.52            | 52.60         | -144.06               | 3,195.62                            | 131.85       | 280.39                 | 175.15                  | 105.24                    | 2.664             |                    |           |
| 8,900.00                          | 5,605.00              | 9,152.93              | 5,832.00              | 98.34            | 53.98         | -144.06               | 3,295.62                            | 131.86       | 280.39                 | 172.34                  | 108.04                    | 2.595             |                    |           |
| 9,000.00                          | 5,605.00              | 9,252.93              | 5,832.00              | 101.17           | 55.36         | -144.06               | 3,395.62                            | 131.86       | 280.38                 | 169.53                  | 110.85                    | 2.529             |                    |           |
| 9,100.00                          | 5,605.00              | 9,352.93              | 5,832.00              | 104.00           | 56.75         | -144.06               | 3,495.62                            | 131.87       | 280.38                 | 166.71                  | 113.67                    | 2.467             |                    |           |
| 9,200.00                          | 5,605.00              | 9,452.93              | 5,832.00              | 106.83           | 58.14         | -144.06               | 3,595.62                            | 131.87       | 280.38                 | 163.89                  | 116.49                    | 2.407             |                    |           |
| 9,300.00                          | 5,605.00              | 9,552.93              | 5,832.00              | 109.66           | 59.53         | -144.06               | 3,695.62                            | 131.88       | 280.38                 | 161.06                  | 119.32                    | 2.350             |                    |           |
| 9,400.00                          | 5,605.00              | 9,652.93              | 5,832.00              | 112.49           | 60.93         | -144.06               | 3,795.62                            | 131.88       | 280.38                 | 158.23                  | 122.15                    | 2.295             |                    |           |
| 9,500.00                          | 5,605.00              | 9,752.93              | 5,832.00              | 115.33           | 62.33         | -144.06               | 3,895.62                            | 131.89       | 280.38                 | 155.39                  | 124.99                    | 2.243             |                    |           |
| 9,600.00                          | 5,605.00              | 9,852.93              | 5,832.00              | 118.17           | 63.74         | -144.06               | 3,995.62                            | 131.89       | 280.38                 | 152.55                  | 127.83                    | 2.193             |                    |           |
| 9,700.00                          | 5,605.00              | 9,952.93              | 5,832.00              | 121.01           | 65.14         | -144.06               | 4,095.62                            | 131.90       | 280.38                 | 149.71                  | 130.67                    | 2.146             |                    |           |
| 9,800.00                          | 5,605.00              | 10,052.93             | 5,832.00              | 123.85           | 66.55         | -144.06               | 4,195.62                            | 131.90       | 280.38                 | 146.86                  | 133.52                    | 2.100             |                    |           |
| 9,900.00                          | 5,605.00              | 10,152.93             | 5,832.00              | 126.70           | 67.97         | -144.06               | 4,295.62                            | 131.91       | 280.38                 | 144.01                  | 136.37                    | 2.056             |                    |           |
| 10,000.00                         | 5,605.00              | 10,252.93             | 5,832.00              | 129.54           | 69.38         | -144.06               | 4,395.62                            | 131.91       | 280.38                 | 141.15                  | 139.22                    | 2.014             |                    |           |
| 10,100.00                         | 5,605.00              | 10,352.93             | 5,832.00              | 132.39           | 70.80         | -144.06               | 4,495.62                            | 131.92       | 280.38                 | 138.30                  | 142.08                    | 1.973             |                    |           |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design                     |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|-----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS+sag |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                         |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                    | Warning   |
| Measured Depth (usft)             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 10,200.00                         | 5,605.00              | 10,452.93             | 5,832.00              | 135.24           | 72.22         | -144.06               | 4,595.62                            | 131.92       | 280.38                 | 135.44                  | 144.94                    | 1.934              |           |
| 10,300.00                         | 5,605.00              | 10,552.93             | 5,832.00              | 138.09           | 73.64         | -144.06               | 4,695.62                            | 131.93       | 280.38                 | 132.57                  | 147.80                    | 1.897              |           |
| 10,400.00                         | 5,605.00              | 10,652.93             | 5,832.00              | 140.94           | 75.07         | -144.06               | 4,795.62                            | 131.94       | 280.38                 | 129.71                  | 150.67                    | 1.861              |           |
| 10,500.00                         | 5,605.00              | 10,752.93             | 5,832.00              | 143.80           | 76.49         | -144.06               | 4,895.62                            | 131.94       | 280.37                 | 126.84                  | 153.54                    | 1.826              |           |
| 10,600.00                         | 5,605.00              | 10,852.93             | 5,832.00              | 146.65           | 77.92         | -144.06               | 4,995.62                            | 131.95       | 280.37                 | 123.97                  | 156.41                    | 1.793              |           |
| 10,700.00                         | 5,605.00              | 10,952.93             | 5,832.00              | 149.51           | 79.35         | -144.06               | 5,095.62                            | 131.95       | 280.37                 | 121.10                  | 159.28                    | 1.760              |           |
| 10,800.00                         | 5,605.00              | 11,052.93             | 5,832.00              | 152.36           | 80.78         | -144.06               | 5,195.62                            | 131.96       | 280.37                 | 118.22                  | 162.15                    | 1.729              |           |
| 10,900.00                         | 5,605.00              | 11,152.93             | 5,832.00              | 155.22           | 82.21         | -144.06               | 5,295.62                            | 131.96       | 280.37                 | 115.35                  | 165.03                    | 1.699              |           |
| 11,000.00                         | 5,605.00              | 11,252.93             | 5,832.00              | 158.08           | 83.65         | -144.06               | 5,395.62                            | 131.97       | 280.37                 | 112.47                  | 167.90                    | 1.670              |           |
| 11,100.00                         | 5,605.00              | 11,352.93             | 5,832.00              | 160.93           | 85.08         | -144.06               | 5,495.62                            | 131.97       | 280.37                 | 109.59                  | 170.78                    | 1.642              |           |
| 11,200.00                         | 5,605.00              | 11,452.93             | 5,832.00              | 163.79           | 86.52         | -144.06               | 5,595.62                            | 131.98       | 280.37                 | 106.71                  | 173.66                    | 1.614              |           |
| 11,300.00                         | 5,605.00              | 11,552.93             | 5,832.00              | 166.65           | 87.95         | -144.06               | 5,695.62                            | 131.98       | 280.37                 | 103.83                  | 176.54                    | 1.588              |           |
| 11,400.00                         | 5,605.00              | 11,652.93             | 5,832.00              | 169.51           | 89.39         | -144.06               | 5,795.62                            | 131.99       | 280.37                 | 100.94                  | 179.43                    | 1.563              |           |
| 11,500.00                         | 5,605.00              | 11,752.93             | 5,832.00              | 172.37           | 90.83         | -144.06               | 5,895.62                            | 131.99       | 280.37                 | 98.06                   | 182.31                    | 1.538              |           |
| 11,600.00                         | 5,605.00              | 11,852.93             | 5,832.00              | 175.24           | 92.27         | -144.06               | 5,995.62                            | 132.00       | 280.37                 | 95.17                   | 185.20                    | 1.514              |           |
| 11,700.00                         | 5,605.00              | 11,952.93             | 5,832.00              | 178.10           | 93.71         | -144.06               | 6,095.62                            | 132.00       | 280.37                 | 92.28                   | 188.09                    | 1.491              | Level 3   |
| 11,800.00                         | 5,605.00              | 12,052.93             | 5,832.00              | 180.96           | 95.15         | -144.06               | 6,195.62                            | 132.01       | 280.37                 | 89.39                   | 190.97                    | 1.468              | Level 3   |
| 11,900.00                         | 5,605.00              | 12,152.93             | 5,832.00              | 183.83           | 96.60         | -144.06               | 6,295.62                            | 132.01       | 280.36                 | 86.50                   | 193.86                    | 1.446              | Level 3   |
| 12,000.00                         | 5,605.00              | 12,252.93             | 5,832.00              | 186.69           | 98.04         | -144.06               | 6,395.62                            | 132.02       | 280.36                 | 83.61                   | 196.75                    | 1.425              | Level 3   |
| 12,100.00                         | 5,605.00              | 12,352.93             | 5,832.00              | 189.55           | 99.49         | -144.06               | 6,495.62                            | 132.03       | 280.36                 | 80.72                   | 199.65                    | 1.404              | Level 3   |
| 12,200.00                         | 5,605.00              | 12,452.93             | 5,832.00              | 192.42           | 100.93        | -144.06               | 6,595.62                            | 132.03       | 280.36                 | 77.82                   | 202.54                    | 1.384              | Level 3   |
| 12,300.00                         | 5,605.00              | 12,552.93             | 5,832.00              | 195.28           | 102.38        | -144.06               | 6,695.62                            | 132.04       | 280.36                 | 74.93                   | 205.43                    | 1.365              | Level 3   |
| 12,400.00                         | 5,605.00              | 12,652.93             | 5,832.00              | 198.15           | 103.83        | -144.06               | 6,795.62                            | 132.04       | 280.36                 | 72.03                   | 208.33                    | 1.346              | Level 3   |
| 12,500.00                         | 5,605.00              | 12,752.93             | 5,832.00              | 201.02           | 105.27        | -144.06               | 6,895.62                            | 132.05       | 280.36                 | 69.14                   | 211.22                    | 1.327              | Level 3   |
| 12,600.00                         | 5,605.00              | 12,852.93             | 5,832.00              | 203.88           | 106.72        | -144.06               | 6,995.62                            | 132.05       | 280.36                 | 66.24                   | 214.12                    | 1.309              | Level 3   |
| 12,700.00                         | 5,605.00              | 12,952.93             | 5,832.00              | 206.75           | 108.17        | -144.06               | 7,095.62                            | 132.06       | 280.36                 | 63.34                   | 217.02                    | 1.292              | Level 3   |
| 12,800.00                         | 5,605.00              | 13,052.93             | 5,832.00              | 209.62           | 109.62        | -144.06               | 7,195.62                            | 132.06       | 280.36                 | 60.44                   | 219.91                    | 1.275              | Level 3   |
| 12,900.00                         | 5,605.00              | 13,152.93             | 5,832.00              | 212.49           | 111.07        | -144.06               | 7,295.62                            | 132.07       | 280.36                 | 57.54                   | 222.81                    | 1.258              | Level 3   |
| 13,000.00                         | 5,605.00              | 13,252.93             | 5,832.00              | 215.35           | 112.52        | -144.06               | 7,395.62                            | 132.07       | 280.36                 | 54.64                   | 225.71                    | 1.242              | Level 2   |
| 13,100.00                         | 5,605.00              | 13,352.93             | 5,832.00              | 218.22           | 113.97        | -144.06               | 7,495.62                            | 132.08       | 280.36                 | 51.74                   | 228.61                    | 1.226              | Level 2   |
| 13,200.00                         | 5,605.00              | 13,452.93             | 5,832.00              | 221.09           | 115.42        | -144.06               | 7,595.62                            | 132.08       | 280.36                 | 48.84                   | 231.51                    | 1.211              | Level 2   |
| 13,300.00                         | 5,605.00              | 13,552.93             | 5,832.00              | 223.96           | 116.88        | -144.06               | 7,695.62                            | 132.09       | 280.36                 | 45.94                   | 234.42                    | 1.196              | Level 2   |
| 13,400.00                         | 5,605.00              | 13,652.93             | 5,832.00              | 226.83           | 118.33        | -144.06               | 7,795.62                            | 132.09       | 280.35                 | 43.04                   | 237.32                    | 1.181              | Level 2   |
| 13,500.00                         | 5,605.00              | 13,752.93             | 5,832.00              | 229.70           | 119.78        | -144.06               | 7,895.62                            | 132.10       | 280.35                 | 40.13                   | 240.22                    | 1.167              | Level 2   |
| 13,600.00                         | 5,605.00              | 13,852.93             | 5,832.00              | 232.57           | 121.24        | -144.06               | 7,995.62                            | 132.11       | 280.35                 | 37.23                   | 243.12                    | 1.153              | Level 2   |
| 13,700.00                         | 5,605.00              | 13,952.93             | 5,832.00              | 235.44           | 122.69        | -144.07               | 8,095.62                            | 132.11       | 280.35                 | 34.33                   | 246.03                    | 1.140              | Level 2   |
| 13,800.00                         | 5,605.00              | 14,052.93             | 5,832.00              | 238.31           | 124.15        | -144.07               | 8,195.62                            | 132.12       | 280.35                 | 31.42                   | 248.93                    | 1.126              | Level 2   |
| 13,900.00                         | 5,605.00              | 14,152.93             | 5,832.00              | 241.18           | 125.60        | -144.07               | 8,295.62                            | 132.12       | 280.35                 | 28.52                   | 251.84                    | 1.113              | Level 2   |
| 14,000.00                         | 5,605.00              | 14,252.93             | 5,832.00              | 244.05           | 127.06        | -144.07               | 8,395.62                            | 132.13       | 280.35                 | 25.61                   | 254.74                    | 1.101              | Level 2   |
| 14,100.00                         | 5,605.00              | 14,352.93             | 5,832.00              | 246.92           | 128.51        | -144.07               | 8,495.62                            | 132.13       | 280.35                 | 22.70                   | 257.65                    | 1.088              | Level 2   |
| 14,200.00                         | 5,605.00              | 14,452.93             | 5,832.00              | 249.79           | 129.97        | -144.07               | 8,595.62                            | 132.14       | 280.35                 | 19.80                   | 260.55                    | 1.076              | Level 2   |
| 14,300.00                         | 5,605.00              | 14,552.93             | 5,832.00              | 252.67           | 131.42        | -144.07               | 8,695.62                            | 132.14       | 280.35                 | 16.89                   | 263.46                    | 1.064              | Level 2   |
| 14,400.00                         | 5,605.00              | 14,652.93             | 5,832.00              | 255.54           | 132.88        | -144.07               | 8,795.62                            | 132.15       | 280.35                 | 13.98                   | 266.37                    | 1.052              | Level 2   |
| 14,500.00                         | 5,605.00              | 14,752.93             | 5,832.00              | 258.41           | 134.34        | -144.07               | 8,895.62                            | 132.15       | 280.35                 | 11.07                   | 269.27                    | 1.041              | Level 2   |
| 14,600.00                         | 5,605.00              | 14,852.93             | 5,832.00              | 261.28           | 135.79        | -144.07               | 8,995.62                            | 132.16       | 280.35                 | 8.16                    | 272.18                    | 1.030              | Level 2   |
| 14,700.00                         | 5,605.00              | 14,952.93             | 5,832.00              | 264.15           | 137.25        | -144.07               | 9,095.62                            | 132.16       | 280.35                 | 5.26                    | 275.09                    | 1.019              | Level 2   |
| 14,800.00                         | 5,605.00              | 15,052.93             | 5,832.00              | 267.03           | 138.71        | -144.07               | 9,195.62                            | 132.17       | 280.34                 | 2.35                    | 278.00                    | 1.008              | Level 2   |
| 14,900.00                         | 5,605.00              | 15,152.93             | 5,832.00              | 269.90           | 140.17        | -144.07               | 9,295.62                            | 132.17       | 280.34                 | -0.56                   | 280.91                    | 0.998              | Level 1   |
| 15,000.00                         | 5,605.00              | 15,252.93             | 5,832.00              | 272.77           | 141.63        | -144.07               | 9,395.62                            | 132.18       | 280.34                 | -3.47                   | 283.82                    | 0.988              | Level 1   |
| 15,100.00                         | 5,605.00              | 15,352.93             | 5,832.00              | 275.64           | 143.09        | -144.07               | 9,495.62                            | 132.18       | 280.34                 | -6.38                   | 286.73                    | 0.978              | Level 1   |
| 15,200.00                         | 5,605.00              | 15,452.93             | 5,832.00              | 278.52           | 144.55        | -144.07               | 9,595.62                            | 132.19       | 280.34                 | -9.29                   | 289.64                    | 0.968              | Level 1   |
| 15,300.00                         | 5,605.00              | 15,552.93             | 5,832.00              | 281.39           | 146.00        | -144.07               | 9,695.62                            | 132.20       | 280.34                 | -12.21                  | 292.55                    | 0.958              | Level 1   |

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



# WOG

## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | HZ                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| <b>Offset Design</b> Sec 25-T10N-R58W - Razor #25O-2444 - Hz - APD |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft       |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------------|
| Survey Program: 0-MWD+IFR1+MS+sag                                  |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.00 usft       |
| Reference  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                           | Warning         |
| Measured Depth (usft)  | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         |                 |
| 15,400.00  | 5,605.00              | 15,652.93             | 5,832.00              | 284.26           | 147.46        | -144.07               | 9,795.62                            | 132.20       | 280.34                 | -15.12                  | 295.46                    | 0.949                     | Level 1         |
| 15,500.00  | 5,605.00              | 15,752.93             | 5,832.00              | 287.14           | 148.92        | -144.07               | 9,895.62                            | 132.21       | 280.34                 | -18.03                  | 298.37                    | 0.940                     | Level 1         |
| 15,600.00  | 5,605.00              | 15,852.93             | 5,832.00              | 290.01           | 150.38        | -144.07               | 9,995.62                            | 132.21       | 280.34                 | -20.94                  | 301.28                    | 0.930                     | Level 1         |
| 15,700.00  | 5,605.00              | 15,952.93             | 5,832.00              | 292.88           | 151.84        | -144.07               | 10,095.62                           | 132.22       | 280.34                 | -23.85                  | 304.19                    | 0.922                     | Level 1         |
| 15,739.55  | 5,605.00              | 15,992.49             | 5,832.00              | 294.02           | 152.42        | -144.07               | 10,135.17                           | 132.22       | 280.34                 | -25.01                  | 305.35                    | 0.918                     | Level 1         |
| 15,752.28  | 5,605.00              | 16,004.19             | 5,832.00              | 294.39           | 152.59        | -144.07               | 10,146.87                           | 132.22       | 280.34                 | -25.36                  | 305.70                    | 0.917                     | Level 1, ES, SF |



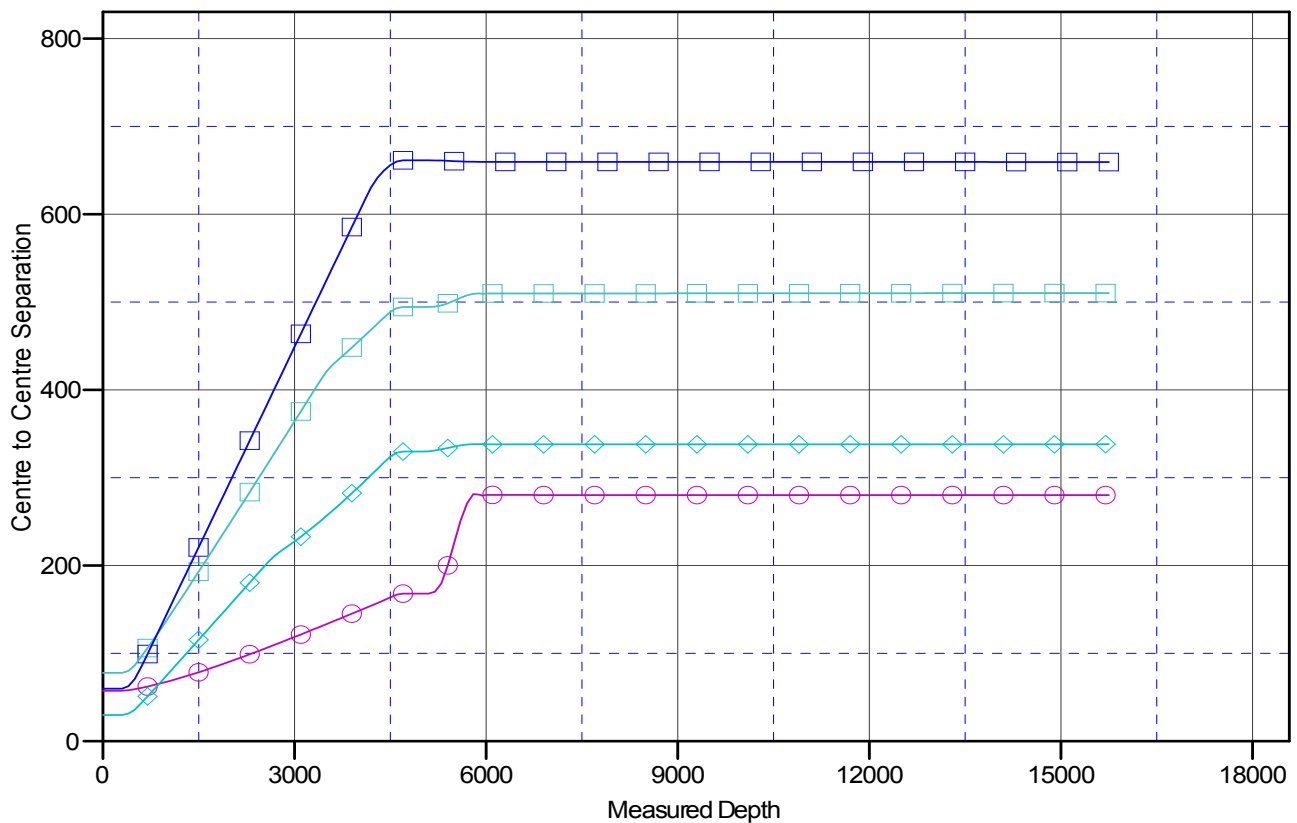
**WOG**  
Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | Hz                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

Reference Depths are relative to KBE @ 4738.00usft (Original Well Ele)  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.00W

Coordinates are relative to: Razor #25O-2412  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 1.09°

## Ladder Plot



### LEGEND

- Razor #25O-2444, Hz, APD V0
- ◇ Razor #25O-2411, Hz, APD V0
- Razor #25O-2443, Hz, APD V0
- Razor #25O-2410, Hz, APD V0



# WOG

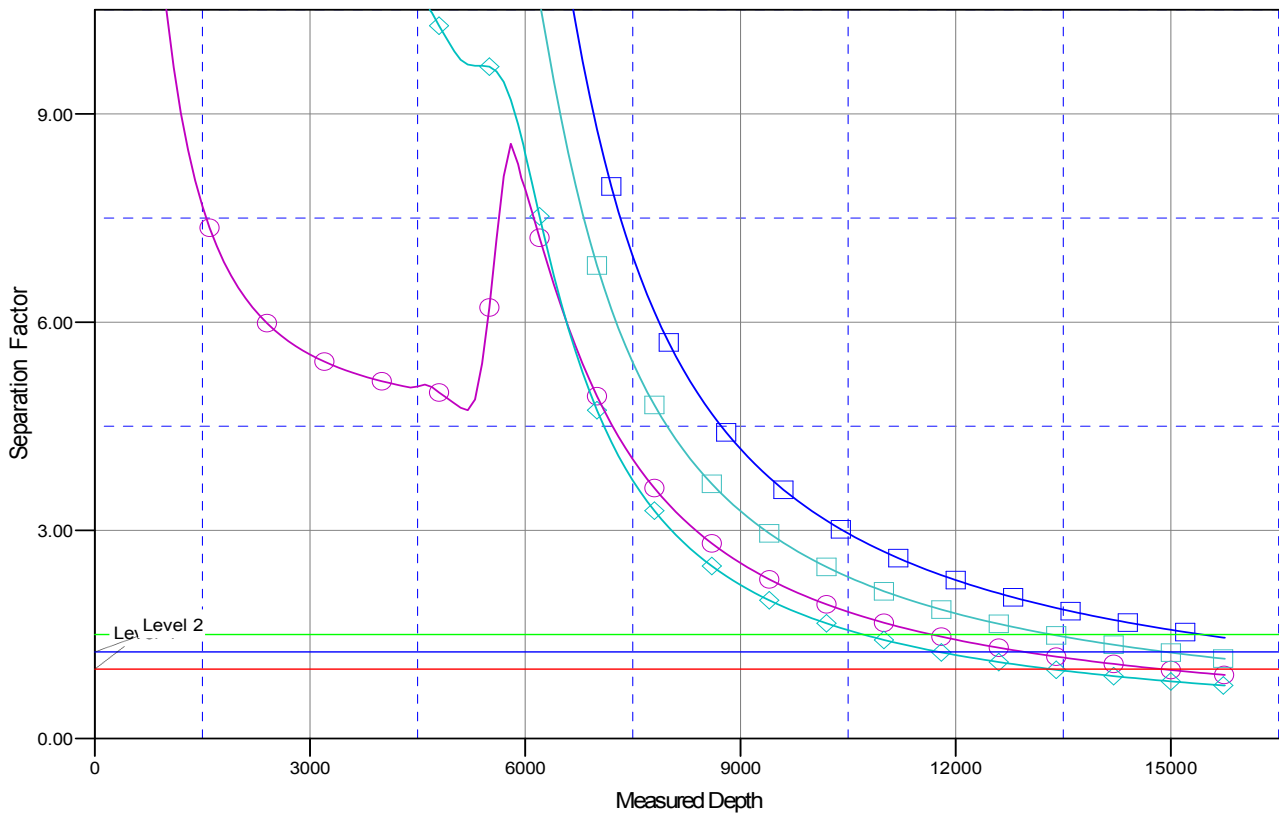
## Anticollision Report

|                           |                         |                                     |  |
|---------------------------|-------------------------|-------------------------------------|--|
| <b>Company:</b>           | Whiting Petroleum Corp. | <b>Local Co-ordinate Reference:</b> | Well Razor #25O-2412                   |
| <b>Project:</b>           | Weld County, CO         | <b>TVD Reference:</b>               | KBE @ 4738.00usft (Original Well Elev) |
| <b>Reference Site:</b>    | Sec 25-T10N-R58W        | <b>MD Reference:</b>                | KBE @ 4738.00usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.00 usft               | <b>North Reference:</b>             | True                                   |
| <b>Reference Well:</b>    | Razor #25O-2412         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft               | <b>Output errors are at</b>         | 3.00 sigma                             |
| <b>Reference Wellbore</b> | Hz                      | <b>Database:</b>                    | LandmarkEDM                            |
| <b>Reference Design:</b>  | APD                     | <b>Offset TVD Reference:</b>        | Offset Datum                           |

Reference Depths are relative to KBE @ 4738.00usft (Original Well Ele  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Razor #25O-2412  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 1.09°

### Separation Factor Plot



### LEGEND

- Razor #25O-2444, Hz, APDV0
- ◇ Razor #25O-2411, Hz, APDV0
- Razor #25O-2443, Hz, APDV0
- Razor #25O-2410, Hz, APDV0