



# **Extraction Oil & Gas**

**Weld Co., Co  
Sec.28-T07N-R67W  
Nelson Farm #4**

**Original Hole  
Rev 2**

## **Anticollision Risk Report**

**26 June, 2014**



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                                     |   |                       |                     |
|-------------------------------------|---|-----------------------|---------------------|
| <b>Reference</b>                    | Rev 2   |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations Interval 1.00usft  | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited   | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 25,000.00usft                     | <b>Error Surface:</b> | Elliptical Conic    |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma  | <b>Casing Method:</b> | Not applied         |

|   |                                  |
|---|----------------------------------|
| <b>Risk Settings</b>                    |                                  |
| <b>Vertical Depth for Analysis:</b>     | usft (Below TVD Reference Datum) |
| <b>Level of Acceptable Risk (1 in):</b> |                                  |
| <b>Minimum Separation:</b>              | 0 usft                           |

|                            |                  |                          |                  |                    |
|----------------------------|------------------|--------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>      | 06/26/14                 |                  |                    |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| 0.00                       | 15,048.84        | Rev 2 (Original Hole)    | Pathfinder       | Pathfinder MWD     |

|  |  |                                     |  |   |                          |                      |
|--|--|-------------------------------------|--|---|--------------------------|----------------------|
| <b>Summary</b>                                   |  |                                     |  |   |                          |                      |
| <b>Site Name</b>                                 | <b>Reference Measured Depth (usft)</b> | <b>Offset Measured Depth (usft)</b> | <b>Distance Between Centres (usft)</b> | <b>Distance Between Ellipses (usft)</b> | <b>Separation Factor</b> | <b>Warning</b>       |
| <b>Offset Well - Wellbore - Design</b>           |  |                                     |  |   |                          |                      |
| Sec.22-T07N-R67W                                 |  |                                     |  |   |                          |                      |
| Lake 3-27 - Original Hole - Original Hole        | 14,436.86                              | 7,419.75                            | 114.82                                 | 15.47                                   | 1.156                    | Level 2 , CC, ES, SF |
| Lake 4-27 - Original Hole - Original Hole        | 13,112.06                              | 7,695.50                            | 80.00                                  | -5.62                                   | 0.934                    | Level 1 , CC, ES, SF |
| Sec.28-T07N-R67W                                 |  |                                     |  |   |                          |                      |
| George Nelson #1 - Original Hole - Original Hole | 900.00                                 | 888.00                              | 1,551.80                               | 1,547.19                                | 336.601                  | CC, ES               |
| George Nelson #1 - Original Hole - Original Hole | 4,500.00                               | 4,338.00                            | 1,929.46                               | 1,906.64                                | 84.543                   | SF                   |
| Nelson Farm #1 - Original Hole - Rev 0           | 565.64                                 | 568.64                              | 84.17                                  | 82.24                                   | 43.750                   | CC                   |
| Nelson Farm #1 - Original Hole - Rev 0           | 600.00                                 | 602.93                              | 84.17                                  | 82.13                                   | 41.185                   | ES                   |
| Nelson Farm #1 - Original Hole - Rev 0           | 15,048.84                              | 15,083.00                           | 551.23                                 | 434.95                                  | 4.741                    | SF                   |
| Nelson Farm #10 - Original Hole - Rev 0          | 700.00                                 | 692.00                              | 167.96                                 | 165.58                                  | 70.760                   | CC, ES               |
| Nelson Farm #10 - Original Hole - Rev 0          | 15,048.84                              | 15,137.81                           | 1,398.98                               | 1,282.63                                | 12.024                   | SF                   |
| Nelson Farm #11 - Original Hole - Rev 0          | 600.00                                 | 591.00                              | 196.01                                 | 193.99                                  | 96.899                   | CC, ES               |
| Nelson Farm #11 - Original Hole - Rev 0          | 15,048.84                              | 14,984.11                           | 1,568.58                               | 1,452.71                                | 13.538                   | SF                   |
| Nelson Farm #12 - Original Hole - Rev 0          | 500.00                                 | 490.00                              | 224.07                                 | 222.40                                  | 134.010                  | CC, ES               |
| Nelson Farm #12 - Original Hole - Rev 0          | 15,048.84                              | 15,055.12                           | 1,896.87                               | 1,780.75                                | 16.335                   | SF                   |
| Nelson Farm #2 - Original Hole - Rev 0           | 665.99                                 | 667.99                              | 56.11                                  | 53.83                                   | 24.691                   | CC                   |
| Nelson Farm #2 - Original Hole - Rev 0           | 700.00                                 | 701.97                              | 56.11                                  | 53.72                                   | 23.465                   | ES                   |
| Nelson Farm #2 - Original Hole - Rev 0           | 15,048.84                              | 14,888.41                           | 432.49                                 | 323.66                                  | 3.974                    | SF                   |
| Nelson Farm #3 - Original Hole - Rev 0           | 766.33                                 | 767.33                              | 28.05                                  | 25.42                                   | 10.701                   | CC                   |
| Nelson Farm #3 - Original Hole - Rev 0           | 800.00                                 | 801.00                              | 28.05                                  | 25.31                                   | 10.241                   | ES                   |
| Nelson Farm #3 - Original Hole - Rev 0           | 6,546.28                               | 6,549.26                            | 61.33                                  | 37.66                                   | 2.591                    | SF                   |
| Nelson Farm #5 - Original Hole - Rev 0           | 900.00                                 | 898.00                              | 28.06                                  | 24.98                                   | 9.103                    | CC, ES               |
| Nelson Farm #5 - Original Hole - Rev 0           | 15,048.84                              | 14,862.67                           | 315.99                                 | 214.27                                  | 3.107                    | SF                   |
| Nelson Farm #6 - Original Hole - Rev 0           | 900.00                                 | 897.00                              | 56.11                                  | 53.03                                   | 18.215                   | CC, ES               |
| Nelson Farm #6 - Original Hole - Rev 0           | 15,048.84                              | 14,873.42                           | 615.63                                 | 503.04                                  | 5.468                    | SF                   |
| Nelson Farm #7 - Original Hole - Rev 0           | 900.00                                 | 896.00                              | 83.80                                  | 80.72                                   | 27.218                   | CC, ES               |
| Nelson Farm #7 - Original Hole - Rev 0           | 15,048.84                              | 15,063.98                           | 749.03                                 | 632.78                                  | 6.443                    | SF                   |
| Nelson Farm #8 - Original Hole - Rev 0           | 900.00                                 | 895.00                              | 111.85                                 | 108.77                                  | 36.351                   | CC, ES               |
| Nelson Farm #8 - Original Hole - Rev 0           | 15,048.84                              | 14,895.27                           | 926.22                                 | 811.53                                  | 8.076                    | SF                   |
| Nelson Farm #9 - Original Hole - Rev 0           | 800.00                                 | 794.00                              | 139.91                                 | 137.18                                  | 51.319                   | CC, ES               |
| Nelson Farm #9 - Original Hole - Rev 0           | 15,048.84                              | 14,936.73                           | 1,251.61                               | 1,136.14                                | 10.839                   | SF                   |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Summary                         |                                 |                              |                                 |                                  |                   |         |
|---------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------|
| Site Name                       | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design |                                 |                              |                                 |                                  |                   |         |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | Sec.22-T07N-R67W - Lake 3-27 - Original Hole - Original Hole |  | Offset Site Error: |  | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|--|--|--------------------|--|-----------|
| Survey Program: 95-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision | Warning  |  |                    |  |           |
| 0.00                          | 0.00                  | 38.06                 | 38.06                 | 0.00             | 0.06          | 82.00                 | 7,361.91               |                         |                           |                   | 0                       |                          |  |  |                    |  |           |
| 100.00                        | 100.00                | 165.35                | 165.34                | 0.15             | 0.26          | 81.99                 | 7,361.67               | 7,361.26                | 0.41                      | 10,000.000        | 0                       |                          |  |  |                    |  |           |
| 200.00                        | 200.00                | 259.33                | 259.32                | 0.32             | 0.42          | 81.99                 | 7,361.22               | 7,360.48                | 0.75                      | 9,869.623         | 0                       |                          |  |  |                    |  |           |
| 300.00                        | 300.00                | 354.82                | 354.81                | 0.50             | 0.59          | 81.99                 | 7,360.89               | 7,359.80                | 1.09                      | 6,771.446         | 0                       |                          |  |  |                    |  |           |
| 400.00                        | 400.00                | 1,236.83              | 1,232.92              | 0.67             | 2.17          | 82.31                 | 7,352.88               | 7,350.04                | 2.83                      | 2,594.582         | 0                       |                          |  |  |                    |  |           |
| 500.00                        | 500.00                | 1,441.62              | 1,433.49              | 0.84             | 2.56          | 82.58                 | 7,341.53               | 7,338.13                | 3.40                      | 2,160.975         | 0                       |                          |  |  |                    |  |           |
| 600.00                        | 600.00                | 1,612.00              | 1,599.50              | 1.02             | 2.90          | 82.83                 | 7,328.85               | 7,324.95                | 3.90                      | 1,878.169         | 0                       |                          |  |  |                    |  |           |
| 700.00                        | 700.00                | 1,689.59              | 1,675.09              | 1.19             | 3.06          | 82.95                 | 7,315.73               | 7,311.50                | 4.23                      | 1,730.276         | 0                       |                          |  |  |                    |  |           |
| 800.00                        | 800.00                | 1,798.19              | 1,780.99              | 1.37             | 3.28          | 83.10                 | 7,302.85               | 7,298.24                | 4.61                      | 1,582.608         | 0                       |                          |  |  |                    |  |           |
| 900.00                        | 900.00                | 1,893.00              | 1,873.57              | 1.54             | 3.47          | 83.23                 | 7,289.90               | 7,284.92                | 4.97                      | 1,465.446         | 0                       |                          |  |  |                    |  |           |
| 1,000.00                      | 999.98                | 1,958.09              | 1,937.08              | 1.72             | 3.60          | 151.36                | 7,278.74               | 7,273.49                | 5.25                      | 1,385.465         | 0                       |                          |  |  |                    |  |           |
| 1,100.00                      | 1,099.84              | 2,118.12              | 2,092.93              | 1.89             | 3.93          | 151.70                | 7,270.42               | 7,264.68                | 5.75                      | 1,265.420         | 0                       |                          |  |  |                    |  |           |
| 1,200.00                      | 1,199.45              | 2,264.01              | 2,235.15              | 2.07             | 4.23          | 152.02                | 7,264.98               | 7,258.77                | 6.21                      | 1,170.619         | 0                       |                          |  |  |                    |  |           |
| 1,239.63                      | 1,238.83              | 2,268.00              | 2,239.03              | 2.14             | 4.24          | 152.04                | 7,263.48               | 7,257.20                | 6.28                      | 1,156.355         | 0                       |                          |  |  |                    |  |           |
| 1,300.00                      | 1,298.78              | 2,312.39              | 2,282.32              | 2.25             | 4.33          | 152.12                | 7,261.68               | 7,255.20                | 6.48                      | 1,121.365         | 0                       |                          |  |  |                    |  |           |
| 1,400.00                      | 1,398.08              | 2,361.00              | 2,329.77              | 2.43             | 4.42          | 152.21                | 7,259.40               | 7,252.65                | 6.75                      | 1,075.662         | 0                       |                          |  |  |                    |  |           |
| 1,500.00                      | 1,497.38              | 2,506.43              | 2,471.56              | 2.61             | 4.73          | 152.48                | 7,257.09               | 7,249.87                | 7.22                      | 1,005.519         | 0                       |                          |  |  |                    |  |           |
| 1,600.00                      | 1,596.68              | 2,618.83              | 2,580.74              | 2.79             | 4.96          | 152.70                | 7,254.53               | 7,246.91                | 7.62                      | 951.473           | 0                       |                          |  |  |                    |  |           |
| 1,700.00                      | 1,695.97              | 2,685.90              | 2,645.69              | 2.97             | 5.10          | 152.85                | 7,252.07               | 7,244.13                | 7.94                      | 913.469           | 0                       |                          |  |  |                    |  |           |
| 1,800.00                      | 1,795.27              | 2,736.00              | 2,694.35              | 3.15             | 5.21          | 152.95                | 7,250.25               | 7,242.04                | 8.22                      | 882.189           | 0                       |                          |  |  |                    |  |           |
| 1,900.00                      | 1,894.57              | 2,806.22              | 2,762.70              | 3.33             | 5.36          | 153.09                | 7,249.00               | 7,240.46                | 8.54                      | 848.991           | 0                       |                          |  |  |                    |  |           |
| 2,000.00                      | 1,993.87              | 2,960.29              | 2,912.82              | 3.52             | 5.68          | 153.39                | 7,247.70               | 7,238.67                | 9.03                      | 802.807           | 0                       |                          |  |  |                    |  |           |
| 2,100.00                      | 2,093.17              | 3,039.76              | 2,990.17              | 3.70             | 5.84          | 153.54                | 7,246.12               | 7,236.76                | 9.37                      | 773.552           | 0                       |                          |  |  |                    |  |           |
| 2,200.00                      | 2,192.46              | 3,111.00              | 3,059.60              | 3.88             | 5.99          | 153.68                | 7,245.08               | 7,235.39                | 9.69                      | 747.715           | 0                       |                          |  |  |                    |  |           |
| 2,300.00                      | 2,291.76              | 3,148.52              | 3,096.20              | 4.06             | 6.07          | 153.75                | 7,244.64               | 7,234.70                | 9.94                      | 728.607           | 0                       |                          |  |  |                    |  |           |
| 2,307.44                      | 2,299.15              | 3,152.10              | 3,099.70              | 4.08             | 6.07          | 153.76                | 7,244.64               | 7,234.68                | 9.96                      | 727.113           | 0                       |                          |  |  |                    |  |           |
| 2,400.00                      | 2,391.06              | 3,205.00              | 3,151.39              | 4.25             | 6.18          | 153.86                | 7,244.97               | 7,234.73                | 10.23                     | 707.875           | 0                       |                          |  |  |                    |  |           |
| 2,500.00                      | 2,490.36              | 3,524.72              | 3,463.56              | 4.43             | 6.84          | 154.46                | 7,245.31               | 7,234.25                | 11.06                     | 655.207           | 0                       |                          |  |  |                    |  |           |
| 2,600.00                      | 2,589.66              | 3,579.00              | 3,516.43              | 4.62             | 6.96          | 154.56                | 7,243.33               | 7,231.98                | 11.35                     | 638.371           | 0                       |                          |  |  |                    |  |           |
| 2,700.00                      | 2,688.95              | 3,794.42              | 3,725.29              | 4.80             | 7.42          | 154.99                | 7,239.97               | 7,227.99                | 11.97                     | 604.597           | 0                       |                          |  |  |                    |  |           |
| 2,800.00                      | 2,788.25              | 3,860.00              | 3,788.54              | 4.98             | 7.57          | 155.14                | 7,237.22               | 7,224.92                | 12.29                     | 588.723           | 0                       |                          |  |  |                    |  |           |
| 2,900.00                      | 2,887.55              | 3,918.69              | 3,845.08              | 5.17             | 7.70          | 155.27                | 7,235.01               | 7,222.41                | 12.60                     | 574.299           | 0                       |                          |  |  |                    |  |           |
| 3,000.00                      | 2,986.85              | 3,987.93              | 3,911.73              | 5.35             | 7.85          | 155.43                | 7,233.10               | 7,220.18                | 12.92                     | 559.653           | 0                       |                          |  |  |                    |  |           |
| 3,100.00                      | 3,086.15              | 4,048.00              | 3,969.74              | 5.54             | 7.98          | 155.56                | 7,231.85               | 7,218.62                | 13.23                     | 546.639           | 0                       |                          |  |  |                    |  |           |
| 3,200.00                      | 3,185.44              | 4,097.48              | 4,017.67              | 5.72             | 8.08          | 155.67                | 7,231.24               | 7,217.73                | 13.51                     | 535.194           | 0                       |                          |  |  |                    |  |           |
| 3,244.17                      | 3,229.30              | 4,122.67              | 4,042.10              | 5.80             | 8.14          | 155.72                | 7,231.17               | 7,217.53                | 13.64                     | 530.033           | 0                       |                          |  |  |                    |  |           |
| 3,300.00                      | 3,284.74              | 4,170.26              | 4,088.32              | 5.90             | 8.24          | 155.82                | 7,231.24               | 7,217.39                | 13.84                     | 522.425           | 0                       |                          |  |  |                    |  |           |
| 3,400.00                      | 3,384.04              | 4,259.14              | 4,174.69              | 6.09             | 8.43          | 156.00                | 7,231.32               | 7,217.12                | 14.20                     | 509.070           | 0                       |                          |  |  |                    |  |           |
| 3,500.00                      | 3,483.34              | 4,329.00              | 4,242.65              | 6.27             | 8.57          | 156.15                | 7,232.07               | 7,217.54                | 14.53                     | 497.781           | 0                       |                          |  |  |                    |  |           |
| 3,600.00                      | 3,582.64              | 4,374.23              | 4,286.70              | 6.46             | 8.67          | 156.24                | 7,233.35               | 7,218.55                | 14.80                     | 488.746           | 0                       |                          |  |  |                    |  |           |
| 3,700.00                      | 3,681.94              | 4,707.88              | 4,612.38              | 6.64             | 9.36          | 156.85                | 7,232.78               | 7,217.13                | 15.66                     | 462.004           | 0                       |                          |  |  |                    |  |           |
| 3,800.00                      | 3,781.23              | 4,891.00              | 4,790.86              | 6.83             | 9.75          | 157.19                | 7,230.87               | 7,214.66                | 16.21                     | 446.100           | 0                       |                          |  |  |                    |  |           |
| 3,900.00                      | 3,880.53              | 4,953.30              | 4,851.27              | 7.01             | 9.88          | 157.31                | 7,228.40               | 7,211.88                | 16.52                     | 437.591           | 0                       |                          |  |  |                    |  |           |
| 4,000.00                      | 3,979.83              | 4,985.00              | 4,881.99              | 7.20             | 9.95          | 157.38                | 7,226.71               | 7,209.94                | 16.76                     | 431.093           | 0                       |                          |  |  |                    |  |           |
| 4,081.81                      | 4,061.06              | 4,985.00              | 4,881.99              | 7.35             | 9.95          | 157.38                | 7,226.24               | 7,209.33                | 16.91                     | 427.348           | 0                       |                          |  |  |                    |  |           |
| 4,100.00                      | 4,079.13              | 4,985.00              | 4,881.99              | 7.38             | 9.95          | 157.38                | 7,226.27               | 7,209.32                | 16.94                     | 426.531           | 0                       |                          |  |  |                    |  |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.22-T07N-R67W - Lake 3-27 - Original Hole - Original Hole | Offset Site Error: | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|--------------------|-----------|
| Survey Program: 95-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |                    |           |
| 4,160.31                      | 4,139.01              | 5,030.85              | 4,926.52              | 7.49             | 10.04         | 157.47                | 7,226.07               | 7,208.92                | 17.14                     | 421.513           | 0                        |                          |  |                    |           |
| 4,200.00                      | 4,178.43              | 5,040.13              | 4,935.56              | 7.56             | 10.06         | 157.49                | 7,226.34               | 7,209.11                | 17.23                     | 419.334           | 0                        |                          |  |                    |           |
| 4,300.00                      | 4,277.72              | 5,078.00              | 4,972.53              | 7.75             | 10.14         | 157.56                | 7,227.83               | 7,210.34                | 17.49                     | 413.290           | 0                        |                          |  |                    |           |
| 4,400.00                      | 4,377.02              | 5,078.00              | 4,972.53              | 7.93             | 10.14         | 157.56                | 7,230.30               | 7,212.63                | 17.67                     | 409.259           | 0                        |                          |  |                    |           |
| 4,500.00                      | 4,476.32              | 5,128.93              | 5,022.41              | 8.12             | 10.24         | 157.65                | 7,233.67               | 7,215.72                | 17.95                     | 403.079           | 0                        |                          |  |                    |           |
| 4,600.00                      | 4,575.62              | 5,172.00              | 5,064.72              | 8.30             | 10.33         | 157.73                | 7,237.97               | 7,219.76                | 18.21                     | 397.481           | 0                        |                          |  |                    |           |
| 4,700.00                      | 4,674.92              | 5,211.68              | 5,103.79              | 8.49             | 10.40         | 157.79                | 7,243.08               | 7,224.62                | 18.46                     | 392.270           | 0                        |                          |  |                    |           |
| 4,800.00                      | 4,774.21              | 5,266.00              | 5,157.36              | 8.67             | 10.51         | 157.88                | 7,248.95               | 7,230.20                | 18.75                     | 386.659           | 0                        |                          |  |                    |           |
| 4,900.00                      | 4,873.51              | 5,303.83              | 5,194.77              | 8.86             | 10.58         | 157.94                | 7,255.55               | 7,236.55                | 19.00                     | 381.963           | 0                        |                          |  |                    |           |
| 5,000.00                      | 4,972.81              | 5,360.00              | 5,250.46              | 9.04             | 10.68         | 158.01                | 7,262.96               | 7,243.68                | 19.28                     | 376.774           | 0                        |                          |  |                    |           |
| 5,100.00                      | 5,072.11              | 5,395.55              | 5,285.77              | 9.23             | 10.74         | 158.06                | 7,271.07               | 7,251.55                | 19.52                     | 372.489           | 0                        |                          |  |                    |           |
| 5,200.00                      | 5,171.41              | 5,453.00              | 5,342.83              | 9.41             | 10.85         | 158.13                | 7,279.93               | 7,260.12                | 19.80                     | 367.600           | 0                        |                          |  |                    |           |
| 5,300.00                      | 5,270.70              | 5,547.00              | 5,436.40              | 9.60             | 11.01         | 158.23                | 7,289.14               | 7,268.99                | 20.14                     | 361.838           | 0                        |                          |  |                    |           |
| 5,400.00                      | 5,370.00              | 5,600.02              | 5,489.33              | 9.78             | 11.09         | 158.27                | 7,298.61               | 7,278.20                | 20.41                     | 357.612           | 0                        |                          |  |                    |           |
| 5,500.00                      | 5,469.30              | 5,666.27              | 5,555.54              | 9.97             | 11.20         | 158.31                | 7,308.73               | 7,288.03                | 20.69                     | 353.170           | 0                        |                          |  |                    |           |
| 5,600.00                      | 5,568.60              | 5,784.59              | 5,673.84              | 10.15            | 11.38         | 158.36                | 7,318.83               | 7,297.76                | 21.06                     | 347.484           | 0                        |                          |  |                    |           |
| 5,700.00                      | 5,667.90              | 5,894.39              | 5,783.64              | 10.34            | 11.56         | 158.41                | 7,328.77               | 7,307.36                | 21.42                     | 342.208           | 0                        |                          |  |                    |           |
| 5,800.00                      | 5,767.20              | 5,983.86              | 5,873.10              | 10.52            | 11.70         | 158.45                | 7,338.68               | 7,316.94                | 21.74                     | 337.610           | 0                        |                          |  |                    |           |
| 5,900.00                      | 5,866.49              | 6,072.53              | 5,961.76              | 10.71            | 11.84         | 158.48                | 7,348.78               | 7,326.72                | 22.06                     | 333.176           | 0                        |                          |  |                    |           |
| 6,000.00                      | 5,965.79              | 6,158.51              | 6,047.74              | 10.89            | 11.97         | 158.51                | 7,359.01               | 7,336.63                | 22.37                     | 328.934           | 0                        |                          |  |                    |           |
| 6,100.00                      | 6,065.09              | 6,240.70              | 6,129.93              | 11.08            | 12.10         | 158.54                | 7,369.47               | 7,346.78                | 22.68                     | 324.902           | 0                        |                          |  |                    |           |
| 6,200.00                      | 6,164.39              | 6,330.18              | 6,219.40              | 11.26            | 12.24         | 158.58                | 7,380.14               | 7,357.13                | 23.00                     | 320.820           | 0                        |                          |  |                    |           |
| 6,237.42                      | 6,201.55              | 6,368.66              | 6,257.89              | 11.33            | 12.30         | 158.59                | 7,384.14               | 7,361.01                | 23.13                     | 319.209           | 0                        |                          |  |                    |           |
| 6,300.00                      | 6,263.76              | 6,429.80              | 6,319.02              | 11.45            | 12.40         | 158.66                | 7,390.20               | 7,366.85                | 23.35                     | 316.486           | 0                        |                          |  |                    |           |
| 6,400.00                      | 6,363.44              | 6,523.17              | 6,412.39              | 11.62            | 12.55         | 158.74                | 7,397.30               | 7,373.63                | 23.68                     | 312.422           | 0                        |                          |  |                    |           |
| 6,500.00                      | 6,463.34              | 6,631.51              | 6,520.72              | 11.79            | 12.72         | 158.78                | 7,401.22               | 7,377.21                | 24.01                     | 308.271           | 0                        |                          |  |                    |           |
| 6,577.05                      | 6,540.38              | 6,718.81              | 6,608.02              | 11.92            | 12.86         | 90.88                 | 7,401.84               | 7,377.86                | 23.97                     | 308.765           | 0                        |                          |  |                    |           |
| 6,600.00                      | 6,563.33              | 6,741.93              | 6,631.14              | 11.96            | 12.90         | 90.88                 | 7,401.73               | 7,377.68                | 24.05                     | 307.762           | 0                        |                          |  |                    |           |
| 6,677.05                      | 6,640.38              | 6,825.31              | 6,714.52              | 12.09            | 13.04         | 90.88                 | 7,401.33               | 7,377.01                | 24.32                     | 304.315           | 0                        |                          |  |                    |           |
| 6,700.00                      | 6,663.33              | 6,850.87              | 6,740.08              | 12.13            | 13.08         | 0.88                  | 7,400.78               | 7,376.15                | 24.63                     | 300.508           | 0                        |                          |  |                    |           |
| 6,750.00                      | 6,713.17              | 6,903.16              | 6,792.36              | 12.20            | 13.16         | 0.89                  | 7,396.71               | 7,372.11                | 24.60                     | 300.688           | 0                        |                          |  |                    |           |
| 6,800.00                      | 6,762.57              | 6,954.94              | 6,844.14              | 12.28            | 13.24         | 0.91                  | 7,388.73               | 7,364.26                | 24.47                     | 301.991           | 0                        |                          |  |                    |           |
| 6,850.00                      | 6,811.21              | 7,016.65              | 6,905.85              | 12.34            | 13.34         | 0.93                  | 7,376.85               | 7,352.60                | 24.25                     | 304.201           | 0                        |                          |  |                    |           |
| 6,900.00                      | 6,858.80              | 7,068.25              | 6,957.45              | 12.41            | 13.43         | 0.96                  | 7,361.12               | 7,337.20                | 23.92                     | 307.728           | 0                        |                          |  |                    |           |
| 6,950.00                      | 6,905.04              | 7,110.36              | 6,999.56              | 12.47            | 13.49         | 0.99                  | 7,341.74               | 7,318.25                | 23.49                     | 312.582           | 0                        |                          |  |                    |           |
| 7,000.00                      | 6,949.66              | 7,140.00              | 7,029.20              | 12.52            | 13.54         | 1.04                  | 7,318.83               | 7,295.88                | 22.95                     | 318.848           | 0                        |                          |  |                    |           |
| 7,050.00                      | 6,992.36              | 7,179.81              | 7,069.00              | 12.58            | 13.61         | 1.09                  | 7,292.56               | 7,270.19                | 22.36                     | 326.071           | 0                        |                          |  |                    |           |
| 7,100.00                      | 7,032.90              | 7,209.32              | 7,098.51              | 12.63            | 13.65         | 1.16                  | 7,263.09               | 7,241.39                | 21.70                     | 334.669           | 0                        |                          |  |                    |           |
| 7,150.00                      | 7,071.01              | 7,239.63              | 7,128.82              | 12.69            | 13.70         | 1.24                  | 7,230.60               | 7,209.61                | 21.00                     | 344.363           | 0                        |                          |  |                    |           |
| 7,200.00                      | 7,106.47              | 7,281.28              | 7,170.47              | 12.74            | 13.77         | 1.35                  | 7,195.23               | 7,174.95                | 20.28                     | 354.795           | 0                        |                          |  |                    |           |
| 7,250.00                      | 7,139.06              | 7,319.46              | 7,208.65              | 12.80            | 13.83         | 1.49                  | 7,157.17               | 7,137.62                | 19.55                     | 366.090           | 0                        |                          |  |                    |           |
| 7,300.00                      | 7,168.57              | 7,352.99              | 7,242.18              | 12.86            | 13.88         | 1.67                  | 7,116.67               | 7,097.84                | 18.83                     | 377.944           | 0                        |                          |  |                    |           |
| 7,350.00                      | 7,194.82              | 7,382.49              | 7,271.69              | 12.93            | 13.93         | 1.91                  | 7,073.98               | 7,055.83                | 18.15                     | 389.836           | 0                        |                          |  |                    |           |
| 7,400.00                      | 7,217.66              | 7,408.06              | 7,297.25              | 13.00            | 13.97         | 2.25                  | 7,029.37               | 7,011.84                | 17.53                     | 401.030           | 0                        |                          |  |                    |           |
| 7,450.00                      | 7,236.94              | 7,428.30              | 7,317.49              | 13.07            | 14.01         | 2.75                  | 6,983.13               | 6,966.12                | 17.01                     | 410.577           | 0                        |                          |  |                    |           |
| 7,500.00                      | 7,252.54              | 7,443.57              | 7,332.76              | 13.15            | 14.03         | 3.54                  | 6,935.53               | 6,918.91                | 16.62                     | 417.202           | 0                        |                          |  |                    |           |
| 7,550.00                      | 7,264.36              | 7,455.06              | 7,344.25              | 13.25            | 14.05         | 4.98                  | 6,886.89               | 6,870.40                | 16.49                     | 417.605           | 0                        |                          |  |                    |           |
| 7,600.00                      | 7,272.34              | 7,462.69              | 7,351.88              | 13.36            | 14.06         | 8.40                  | 6,837.50               | 6,820.67                | 16.83                     | 406.367           | 0                        |                          |  |                    |           |
| 7,650.00                      | 7,276.43              | 7,466.43              | 7,355.62              | 13.49            | 14.07         | 25.47                 | 6,787.66               | 6,767.66                | 19.99                     | 339.493           | 0                        |                          |  |                    |           |
| 7,677.05                      | 7,277.00              | 7,466.82              | 7,356.01              | 13.55            | 14.07         | 112.26                | 6,760.62               | 6,733.06                | 27.55                     | 245.359           | 0                        |                          |  |                    |           |
| 7,700.00                      | 7,277.00              | 7,466.66              | 7,355.85              | 13.62            | 14.07         | 112.19                | 6,737.67               | 6,709.95                | 27.72                     | 243.097           | 0                        |                          |  |                    |           |
| 7,800.00                      | 7,277.00              | 7,465.96              | 7,355.15              | 13.90            | 14.07         | 111.89                | 6,637.69               | 6,609.25                | 28.44                     | 233.397           | 0                        |                          |  |                    |           |
| 7,900.00                      | 7,277.00              | 7,465.26              | 7,354.45              | 14.20            | 14.07         | 111.59                | 6,537.70               | 6,508.51                | 29.19                     | 223.964           | 0                        |                          |  |                    |           |
| 8,000.00                      | 7,277.00              | 7,464.57              | 7,353.76              | 14.54            | 14.06         | 111.29                | 6,437.72               | 6,407.75                | 29.97                     | 214.817           | 0                        |                          |  |                    |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.22-T07N-R67W - Lake 3-27 - Original Hole - Original Hole | Offset Site Error: | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|--------------------|-----------|
| Survey Program: 95-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |                    |           |
| 8,100.00                      | 7,277.00              | 7,463.87              | 7,353.06              | 14.90            | 14.06         | 110.99                | 6,337.74               | 6,306.97                | 30.77                     | 205.967           | 0                        |                          |  |                    |           |
| 8,200.00                      | 7,277.00              | 7,463.17              | 7,352.36              | 15.28            | 14.06         | 110.69                | 6,237.76               | 6,206.16                | 31.60                     | 197.421           | 0                        |                          |  |                    |           |
| 8,300.00                      | 7,277.00              | 7,462.48              | 7,351.67              | 15.69            | 14.06         | 110.38                | 6,137.78               | 6,105.34                | 32.44                     | 189.183           | 0                        |                          |  |                    |           |
| 8,400.00                      | 7,277.00              | 7,461.78              | 7,350.97              | 16.11            | 14.06         | 110.08                | 6,037.80               | 6,004.49                | 33.31                     | 181.254           | 0                        |                          |  |                    |           |
| 8,500.00                      | 7,277.00              | 7,461.09              | 7,350.28              | 16.56            | 14.06         | 109.77                | 5,937.82               | 5,903.62                | 34.20                     | 173.630           | 0                        |                          |  |                    |           |
| 8,600.00                      | 7,277.00              | 7,460.39              | 7,349.58              | 17.02            | 14.06         | 109.46                | 5,837.84               | 5,802.74                | 35.10                     | 166.306           | 0                        |                          |  |                    |           |
| 8,700.00                      | 7,277.00              | 7,459.69              | 7,348.88              | 17.49            | 14.06         | 109.15                | 5,737.86               | 5,701.84                | 36.02                     | 159.277           | 0                        |                          |  |                    |           |
| 8,800.00                      | 7,277.00              | 7,459.00              | 7,348.19              | 17.99            | 14.06         | 108.84                | 5,637.89               | 5,600.93                | 36.96                     | 152.535           | 0                        |                          |  |                    |           |
| 8,900.00                      | 7,277.00              | 7,458.30              | 7,347.49              | 18.49            | 14.05         | 108.53                | 5,537.91               | 5,500.00                | 37.91                     | 146.069           | 0                        |                          |  |                    |           |
| 9,000.00                      | 7,277.00              | 7,457.60              | 7,346.79              | 19.01            | 14.05         | 108.22                | 5,437.94               | 5,399.06                | 38.88                     | 139.871           | 0                        |                          |  |                    |           |
| 9,100.00                      | 7,277.00              | 7,456.91              | 7,346.10              | 19.54            | 14.05         | 107.90                | 5,337.96               | 5,298.10                | 39.86                     | 133.931           | 0                        |                          |  |                    |           |
| 9,200.00                      | 7,277.00              | 7,456.21              | 7,345.40              | 20.08            | 14.05         | 107.59                | 5,237.99               | 5,197.14                | 40.85                     | 128.238           | 0                        |                          |  |                    |           |
| 9,300.00                      | 7,277.00              | 7,455.52              | 7,344.71              | 20.63            | 14.05         | 107.27                | 5,138.01               | 5,096.17                | 41.85                     | 122.781           | 0                        |                          |  |                    |           |
| 9,400.00                      | 7,277.00              | 7,454.82              | 7,344.01              | 21.19            | 14.05         | 106.95                | 5,038.04               | 4,995.18                | 42.86                     | 117.551           | 0                        |                          |  |                    |           |
| 9,500.00                      | 7,277.00              | 7,454.12              | 7,343.31              | 21.76            | 14.05         | 106.64                | 4,938.07               | 4,894.19                | 43.88                     | 112.537           | 0                        |                          |  |                    |           |
| 9,600.00                      | 7,277.00              | 7,453.43              | 7,342.62              | 22.34            | 14.05         | 106.32                | 4,838.10               | 4,793.19                | 44.91                     | 107.729           | 0                        |                          |  |                    |           |
| 9,700.00                      | 7,277.00              | 7,452.73              | 7,341.92              | 22.92            | 14.05         | 106.00                | 4,738.13               | 4,692.18                | 45.95                     | 103.117           | 0                        |                          |  |                    |           |
| 9,800.00                      | 7,277.00              | 7,452.03              | 7,341.22              | 23.51            | 14.04         | 105.67                | 4,638.16               | 4,591.17                | 47.00                     | 98.692            | 0                        |                          |  |                    |           |
| 9,900.00                      | 7,277.00              | 7,451.34              | 7,340.53              | 24.10            | 14.04         | 105.35                | 4,538.20               | 4,490.15                | 48.05                     | 94.445            | 0                        |                          |  |                    |           |
| 10,000.00                     | 7,277.00              | 7,450.64              | 7,339.83              | 24.71            | 14.04         | 105.03                | 4,438.23               | 4,389.12                | 49.11                     | 90.368            | 0                        |                          |  |                    |           |
| 10,100.00                     | 7,277.00              | 7,449.95              | 7,339.14              | 25.31            | 14.04         | 104.70                | 4,338.27               | 4,288.09                | 50.18                     | 86.451            | 0                        |                          |  |                    |           |
| 10,200.00                     | 7,277.00              | 7,449.25              | 7,338.44              | 25.92            | 14.04         | 104.38                | 4,238.31               | 4,187.05                | 51.26                     | 82.688            | 0                        |                          |  |                    |           |
| 10,300.00                     | 7,277.00              | 7,448.55              | 7,337.74              | 26.54            | 14.04         | 104.05                | 4,138.35               | 4,086.01                | 52.34                     | 79.070            | 0                        |                          |  |                    |           |
| 10,400.00                     | 7,277.00              | 7,447.86              | 7,337.05              | 27.16            | 14.04         | 103.72                | 4,038.39               | 3,984.97                | 53.42                     | 75.591            | 0                        |                          |  |                    |           |
| 10,500.00                     | 7,277.00              | 7,447.16              | 7,336.35              | 27.78            | 14.04         | 103.40                | 3,938.43               | 3,883.92                | 54.52                     | 72.244            | 0                        |                          |  |                    |           |
| 10,600.00                     | 7,277.00              | 7,446.46              | 7,335.65              | 28.41            | 14.04         | 103.07                | 3,838.48               | 3,782.87                | 55.61                     | 69.022            | 0                        |                          |  |                    |           |
| 10,700.00                     | 7,277.00              | 7,445.77              | 7,334.96              | 29.04            | 14.03         | 102.74                | 3,738.53               | 3,681.81                | 56.71                     | 65.920            | 0                        |                          |  |                    |           |
| 10,800.00                     | 7,277.00              | 7,445.07              | 7,334.26              | 29.68            | 14.03         | 102.41                | 3,638.58               | 3,580.76                | 57.82                     | 62.931            | 0                        |                          |  |                    |           |
| 10,900.00                     | 7,277.00              | 7,444.38              | 7,333.57              | 30.32            | 14.03         | 102.07                | 3,538.63               | 3,479.70                | 58.93                     | 60.050            | 0                        |                          |  |                    |           |
| 11,000.00                     | 7,277.00              | 7,443.68              | 7,332.87              | 30.96            | 14.03         | 101.74                | 3,438.69               | 3,378.65                | 60.04                     | 57.272            | 0                        |                          |  |                    |           |
| 11,100.00                     | 7,277.00              | 7,442.98              | 7,332.17              | 31.60            | 14.03         | 101.41                | 3,338.75               | 3,277.59                | 61.16                     | 54.592            | 0                        |                          |  |                    |           |
| 11,200.00                     | 7,277.00              | 7,442.29              | 7,331.48              | 32.25            | 14.03         | 101.07                | 3,238.81               | 3,176.53                | 62.28                     | 52.005            | 0                        |                          |  |                    |           |
| 11,300.00                     | 7,277.00              | 7,441.59              | 7,330.78              | 32.89            | 14.03         | 100.74                | 3,138.88               | 3,075.48                | 63.40                     | 49.508            | 0                        |                          |  |                    |           |
| 11,400.00                     | 7,277.00              | 7,440.89              | 7,330.08              | 33.54            | 14.03         | 100.40                | 3,038.95               | 2,974.42                | 64.53                     | 47.096            | 0                        |                          |  |                    |           |
| 11,500.00                     | 7,277.00              | 7,440.20              | 7,329.39              | 34.20            | 14.03         | 100.07                | 2,939.03               | 2,873.37                | 65.66                     | 44.764            | 0                        |                          |  |                    |           |
| 11,600.00                     | 7,277.00              | 7,439.50              | 7,328.69              | 34.85            | 14.02         | 99.73                 | 2,839.11               | 2,772.32                | 66.79                     | 42.510            | 0                        |                          |  |                    |           |
| 11,700.00                     | 7,277.00              | 7,438.81              | 7,328.00              | 35.51            | 14.02         | 99.39                 | 2,739.20               | 2,671.28                | 67.92                     | 40.330            | 0                        |                          |  |                    |           |
| 11,800.00                     | 7,277.00              | 7,438.11              | 7,327.30              | 36.16            | 14.02         | 99.05                 | 2,639.29               | 2,570.24                | 69.05                     | 38.221            | 0                        |                          |  |                    |           |
| 11,900.00                     | 7,277.00              | 7,437.41              | 7,326.60              | 36.82            | 14.02         | 98.72                 | 2,539.39               | 2,469.20                | 70.19                     | 36.179            | 0                        |                          |  |                    |           |
| 12,000.00                     | 7,277.00              | 7,436.72              | 7,325.91              | 37.49            | 14.02         | 98.38                 | 2,439.50               | 2,368.17                | 71.33                     | 34.201            | 0                        |                          |  |                    |           |
| 12,100.00                     | 7,277.00              | 7,436.02              | 7,325.21              | 38.15            | 14.02         | 98.04                 | 2,339.62               | 2,267.15                | 72.47                     | 32.285            | 0                        |                          |  |                    |           |
| 12,200.00                     | 7,277.00              | 7,435.32              | 7,324.51              | 38.81            | 14.02         | 97.69                 | 2,239.75               | 2,166.14                | 73.61                     | 30.428            | 0                        |                          |  |                    |           |
| 12,300.00                     | 7,277.00              | 7,434.63              | 7,323.82              | 39.48            | 14.02         | 97.35                 | 2,139.89               | 2,065.14                | 74.75                     | 28.627            | 0                        |                          |  |                    |           |
| 12,400.00                     | 7,277.00              | 7,433.93              | 7,323.12              | 40.15            | 14.02         | 97.01                 | 2,040.04               | 1,964.15                | 75.89                     | 26.880            | 0                        |                          |  |                    |           |
| 12,500.00                     | 7,277.00              | 7,433.24              | 7,322.43              | 40.81            | 14.01         | 96.67                 | 1,940.21               | 1,863.17                | 77.04                     | 25.186            | 0                        |                          |  |                    |           |
| 12,600.00                     | 7,277.00              | 7,432.54              | 7,321.73              | 41.48            | 14.01         | 96.33                 | 1,840.40               | 1,762.22                | 78.18                     | 23.541            | 0                        |                          |  |                    |           |
| 12,700.00                     | 7,277.00              | 7,431.84              | 7,321.03              | 42.15            | 14.01         | 95.98                 | 1,740.60               | 1,661.28                | 79.32                     | 21.943            | 0                        |                          |  |                    |           |
| 12,800.00                     | 7,277.00              | 7,431.15              | 7,320.34              | 42.82            | 14.01         | 95.64                 | 1,640.84               | 1,560.37                | 80.47                     | 20.391            | 0                        |                          |  |                    |           |
| 12,900.00                     | 7,277.00              | 7,430.45              | 7,319.64              | 43.50            | 14.01         | 95.29                 | 1,541.10               | 1,459.49                | 81.61                     | 18.883            | 0                        |                          |  |                    |           |
| 13,000.00                     | 7,277.00              | 7,429.75              | 7,318.95              | 44.17            | 14.01         | 94.95                 | 1,441.40               | 1,358.64                | 82.76                     | 17.418            | 0                        |                          |  |                    |           |
| 13,100.00                     | 7,277.00              | 7,429.06              | 7,318.25              | 44.85            | 14.01         | 94.60                 | 1,341.74               | 1,257.85                | 83.90                     | 15.992            | 0                        |                          |  |                    |           |
| 13,200.00                     | 7,277.00              | 7,428.36              | 7,317.55              | 45.52            | 14.01         | 94.26                 | 1,242.14               | 1,157.10                | 85.04                     | 14.606            | 0                        |                          |  |                    |           |
| 13,300.00                     | 7,277.00              | 7,427.67              | 7,316.86              | 46.20            | 14.01         | 93.91                 | 1,142.61               | 1,056.43                | 86.18                     | 13.258            | 0                        |                          |  |                    |           |
| 13,400.00                     | 7,277.00              | 7,426.97              | 7,316.16              | 46.87            | 14.00         | 93.57                 | 1,043.17               | 955.84                  | 87.33                     | 11.946            | 0                        |                          |  |                    |           |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.22-T07N-R67W - Lake 3-27 - Original Hole - Original Hole |           | Offset Site Error: | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|-----------|--------------------|-----------|
| Survey Program: 95-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |           |                    |           |
| 13,500.00                     | 7,277.00              | 7,426.27              | 7,315.46              | 47.55            | 14.00         | 93.22                 | 943.84                 | 855.38                  | 88.47                     | 10.669            | 0                        |                          |  |           |                    |           |
| 13,600.00                     | 7,277.00              | 7,425.58              | 7,314.77              | 48.23            | 14.00         | 92.88                 | 844.68                 | 755.07                  | 89.61                     | 9.426             | 0                        |                          |  |           |                    |           |
| 13,700.00                     | 7,277.00              | 7,424.88              | 7,314.07              | 48.91            | 14.00         | 92.53                 | 745.73                 | 654.98                  | 90.75                     | 8.218             | 0                        |                          |  |           |                    |           |
| 13,800.00                     | 7,277.00              | 7,424.18              | 7,313.38              | 49.59            | 14.00         | 92.18                 | 647.11                 | 555.23                  | 91.88                     | 7.043             | 0                        |                          |  |           |                    |           |
| 13,900.00                     | 7,277.00              | 7,423.49              | 7,312.68              | 50.27            | 14.00         | 91.84                 | 548.98                 | 455.97                  | 93.02                     | 5.902             | 0                        |                          |  |           |                    |           |
| 14,000.00                     | 7,277.00              | 7,422.79              | 7,311.98              | 50.95            | 14.00         | 91.49                 | 451.68                 | 357.53                  | 94.15                     | 4.797             | 0                        |                          |  |           |                    |           |
| 14,100.00                     | 7,277.00              | 7,422.10              | 7,311.29              | 51.63            | 14.00         | 91.14                 | 355.88                 | 260.60                  | 95.28                     | 3.735             | 0                        |                          |  |           |                    |           |
| 14,200.00                     | 7,277.00              | 7,421.40              | 7,310.59              | 52.31            | 13.99         | 90.79                 | 263.21                 | 166.80                  | 96.41                     | 2.730             | 0                        |                          |  |           |                    |           |
| 14,300.00                     | 7,277.00              | 7,420.70              | 7,309.89              | 53.00            | 13.99         | 90.45                 | 178.64                 | 81.10                   | 97.54                     | 1.831             | 0                        |                          |  |           |                    |           |
| 14,400.00                     | 7,277.00              | 7,420.01              | 7,309.20              | 53.68            | 13.99         | 90.10                 | 120.59                 | 21.93                   | 98.67                     | 1.222             | 0                        |                          | Level 2  |           |                    |           |
| 14,436.86                     | 7,277.00              | 7,419.75              | 7,308.94              | 53.93            | 13.99         | 89.97                 | 114.82                 | 15.47                   | 99.36                     | 1.156             | 0                        |                          | Level 2 , CC, ES, SF   |           |                    |           |
| 14,500.00                     | 7,277.00              | 7,419.31              | 7,308.50              | 54.36            | 13.99         | 89.75                 | 131.04                 | 31.25                   | 99.79                     | 1.313             | 0                        |                          | Level 3  |           |                    |           |
| 14,600.00                     | 7,277.00              | 7,419.00              | 7,308.19              | 55.05            | 13.99         | 89.60                 | 199.50                 | 98.59                   | 100.91                    | 1.977             | 0                        |                          |  |           |                    |           |
| 14,700.00                     | 7,277.00              | 7,417.93              | 7,307.12              | 55.73            | 13.99         | 89.06                 | 287.10                 | 185.07                  | 102.03                    | 2.814             | 0                        |                          |  |           |                    |           |
| 14,800.00                     | 7,277.00              | 7,417.24              | 7,306.44              | 56.42            | 13.99         | 88.72                 | 380.86                 | 277.71                  | 103.15                    | 3.692             | 0                        |                          |  |           |                    |           |
| 14,900.00                     | 7,277.00              | 7,416.56              | 7,305.75              | 57.11            | 13.99         | 88.38                 | 477.16                 | 372.90                  | 104.26                    | 4.577             | 0                        |                          |  |           |                    |           |
| 15,000.00                     | 7,277.00              | 7,415.88              | 7,305.07              | 57.79            | 13.99         | 88.04                 | 574.72                 | 469.35                  | 105.37                    | 5.454             | 0                        |                          |  |           |                    |           |
| 15,048.84                     | 7,277.00              | 7,415.55              | 7,304.74              | 58.13            | 13.99         | 87.87                 | 622.65                 | 516.74                  | 105.91                    | 5.879             | 0                        |                          |  |           |                    |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16") |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16") |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.22-T07N-R67W - Lake 4-27 - Original Hole - Original Hole |         | Offset Site Error: 0.00 usft |  |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|---------|------------------------------|--|
| Survey Program: 68-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  |         | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |         |                              |  |
| 0.00                          | 0.00                  | 2,955.00              | 2,802.89              | 0.00             | 6.82          | 84.10                 | 7,139.61               |                         |                           |                   |                          |                          | 0  |         |                              |  |
| 100.00                        | 100.00                | 3,033.33              | 2,874.42              | 0.15             | 7.03          | 84.19                 | 7,101.02               | 7,093.84                | 7.18                      | 989.247           | 0                        |                          | 0  |         |                              |  |
| 200.00                        | 200.00                | 3,142.00              | 2,973.35              | 0.32             | 7.34          | 84.33                 | 7,061.79               | 7,054.13                | 7.66                      | 921.816           | 0                        |                          | 0  |         |                              |  |
| 300.00                        | 300.00                | 3,204.29              | 3,030.05              | 0.50             | 7.51          | 84.41                 | 7,022.83               | 7,014.82                | 8.01                      | 877.044           | 0                        |                          | 0  |         |                              |  |
| 400.00                        | 400.00                | 3,330.00              | 3,144.96              | 0.67             | 7.87          | 84.58                 | 6,984.75               | 6,976.21                | 8.53                      | 818.482           | 0                        |                          | 0  |         |                              |  |
| 500.00                        | 500.00                | 3,414.41              | 3,221.93              | 0.84             | 8.10          | 84.69                 | 6,945.95               | 6,937.00                | 8.95                      | 776.494           | 0                        |                          | 0  |         |                              |  |
| 600.00                        | 600.00                | 3,510.36              | 3,309.47              | 1.02             | 8.37          | 84.81                 | 6,907.21               | 6,897.82                | 9.39                      | 735.684           | 0                        |                          | 0  |         |                              |  |
| 700.00                        | 700.00                | 3,704.00              | 3,485.42              | 1.19             | 8.92          | 85.06                 | 6,867.24               | 6,857.13                | 10.12                     | 678.772           | 0                        |                          | 0  |         |                              |  |
| 800.00                        | 800.00                | 3,783.61              | 3,557.54              | 1.37             | 9.15          | 85.17                 | 6,827.19               | 6,816.67                | 10.52                     | 648.970           | 0                        |                          | 0  |         |                              |  |
| 900.00                        | 900.00                | 3,997.99              | 3,750.50              | 1.54             | 9.78          | 85.49                 | 6,786.05               | 6,774.72                | 11.33                     | 599.156           | 0                        |                          | 0  |         |                              |  |
| 1,000.00                      | 999.98                | 4,066.57              | 3,811.88              | 1.72             | 9.99          | 153.92                | 6,746.11               | 6,736.44                | 9.67                      | 697.863           | 0                        |                          | 0  |         |                              |  |
| 1,100.00                      | 1,099.84              | 4,111.42              | 3,852.03              | 1.89             | 10.12         | 154.35                | 6,709.54               | 6,699.54                | 9.99                      | 671.411           | 0                        |                          | 0  |         |                              |  |
| 1,200.00                      | 1,199.45              | 4,173.00              | 3,907.41              | 2.07             | 10.30         | 154.78                | 6,676.76               | 6,666.41                | 10.35                     | 645.069           | 0                        |                          | 0  |         |                              |  |
| 1,239.63                      | 1,238.83              | 4,173.00              | 3,907.41              | 2.14             | 10.30         | 154.89                | 6,664.71               | 6,654.28                | 10.43                     | 638.692           | 0                        |                          | 0  |         |                              |  |
| 1,300.00                      | 1,298.78              | 4,173.00              | 3,907.41              | 2.25             | 10.30         | 154.89                | 6,647.13               | 6,636.59                | 10.54                     | 630.567           | 0                        |                          | 0  |         |                              |  |
| 1,400.00                      | 1,398.08              | 4,216.24              | 3,946.55              | 2.43             | 10.42         | 154.98                | 6,618.67               | 6,607.86                | 10.81                     | 612.019           | 0                        |                          | 0  |         |                              |  |
| 1,500.00                      | 1,497.38              | 4,266.00              | 3,991.93              | 2.61             | 10.56         | 155.09                | 6,591.33               | 6,580.23                | 11.10                     | 593.693           | 0                        |                          | 0  |         |                              |  |
| 1,600.00                      | 1,596.68              | 4,472.60              | 4,180.70              | 2.79             | 11.14         | 155.49                | 6,564.20               | 6,552.47                | 11.73                     | 559.414           | 0                        |                          | 0  |         |                              |  |
| 1,700.00                      | 1,695.97              | 4,548.00              | 4,249.32              | 2.97             | 11.35         | 155.64                | 6,535.60               | 6,523.52                | 12.08                     | 541.112           | 0                        |                          | 0  |         |                              |  |
| 1,800.00                      | 1,795.27              | 4,721.61              | 4,407.15              | 3.15             | 11.85         | 155.98                | 6,506.93               | 6,494.29                | 12.64                     | 514.726           | 0                        |                          | 0  |         |                              |  |
| 1,900.00                      | 1,894.57              | 4,783.93              | 4,463.60              | 3.33             | 12.03         | 156.10                | 6,477.58               | 6,464.62                | 12.96                     | 499.868           | 0                        |                          | 0  |         |                              |  |
| 2,000.00                      | 1,993.87              | 4,840.30              | 4,514.80              | 3.52             | 12.19         | 156.22                | 6,448.89               | 6,435.63                | 13.26                     | 486.244           | 0                        |                          | 0  |         |                              |  |
| 2,100.00                      | 2,093.17              | 4,934.38              | 4,600.31              | 3.70             | 12.46         | 156.41                | 6,420.47               | 6,406.82                | 13.65                     | 470.282           | 0                        |                          | 0  |         |                              |  |
| 2,200.00                      | 2,192.46              | 5,016.00              | 4,674.56              | 3.88             | 12.69         | 156.58                | 6,392.33               | 6,378.31                | 14.01                     | 456.138           | 0                        |                          | 0  |         |                              |  |
| 2,300.00                      | 2,291.76              | 5,110.00              | 4,760.17              | 4.06             | 12.96         | 156.77                | 6,364.26               | 6,349.86                | 14.40                     | 441.889           | 0                        |                          | 0  |         |                              |  |
| 2,400.00                      | 2,391.06              | 5,110.00              | 4,760.17              | 4.25             | 12.96         | 156.77                | 6,336.94               | 6,322.36                | 14.58                     | 434.622           | 0                        |                          | 0  |         |                              |  |
| 2,500.00                      | 2,490.36              | 5,157.66              | 4,803.83              | 4.43             | 13.08         | 156.86                | 6,310.33               | 6,295.47                | 14.86                     | 424.625           | 0                        |                          | 0  |         |                              |  |
| 2,600.00                      | 2,589.66              | 5,203.00              | 4,845.83              | 4.62             | 13.20         | 156.95                | 6,285.24               | 6,270.11                | 15.14                     | 415.238           | 0                        |                          | 0  |         |                              |  |
| 2,700.00                      | 2,688.95              | 5,203.00              | 4,845.83              | 4.80             | 13.20         | 156.95                | 6,260.97               | 6,245.65                | 15.31                     | 408.825           | 0                        |                          | 0  |         |                              |  |
| 2,800.00                      | 2,788.25              | 5,238.96              | 4,879.37              | 4.98             | 13.30         | 157.01                | 6,237.92               | 6,222.35                | 15.57                     | 400.677           | 0                        |                          | 0  |         |                              |  |
| 2,900.00                      | 2,887.55              | 5,297.00              | 4,933.81              | 5.17             | 13.44         | 157.11                | 6,215.95               | 6,200.08                | 15.87                     | 391.706           | 0                        |                          | 0  |         |                              |  |
| 3,000.00                      | 2,986.85              | 5,297.00              | 4,933.81              | 5.35             | 13.44         | 157.11                | 6,194.79               | 6,178.75                | 16.05                     | 386.039           | 0                        |                          | 0  |         |                              |  |
| 3,100.00                      | 3,086.15              | 5,340.63              | 4,974.97              | 5.54             | 13.55         | 157.18                | 6,174.71               | 6,158.40                | 16.32                     | 378.456           | 0                        |                          | 0  |         |                              |  |
| 3,200.00                      | 3,185.44              | 5,391.00              | 5,022.74              | 5.72             | 13.67         | 157.27                | 6,155.81               | 6,139.22                | 16.60                     | 370.877           | 0                        |                          | 0  |         |                              |  |
| 3,300.00                      | 3,284.74              | 5,391.00              | 5,022.74              | 5.90             | 13.67         | 157.27                | 6,137.86               | 6,121.08                | 16.78                     | 365.868           | 0                        |                          | 0  |         |                              |  |
| 3,400.00                      | 3,384.04              | 5,429.81              | 5,059.76              | 6.09             | 13.75         | 157.33                | 6,121.05               | 6,104.01                | 17.03                     | 359.381           | 0                        |                          | 0  |         |                              |  |
| 3,500.00                      | 3,483.34              | 5,484.00              | 5,111.77              | 6.27             | 13.88         | 157.41                | 6,105.63               | 6,088.31                | 17.32                     | 352.541           | 0                        |                          | 0  |         |                              |  |
| 3,600.00                      | 3,582.64              | 5,484.00              | 5,111.77              | 6.46             | 13.88         | 157.41                | 6,090.97               | 6,073.47                | 17.50                     | 348.112           | 0                        |                          | 0  |         |                              |  |
| 3,700.00                      | 3,681.94              | 5,529.08              | 5,155.25              | 6.64             | 13.97         | 157.48                | 6,077.53               | 6,059.77                | 17.76                     | 342.120           | 0                        |                          | 0  |         |                              |  |
| 3,800.00                      | 3,781.23              | 5,578.00              | 5,202.56              | 6.83             | 14.08         | 157.55                | 6,065.02               | 6,046.99                | 18.04                     | 336.217           | 0                        |                          | 0  |         |                              |  |
| 3,900.00                      | 3,880.53              | 5,610.64              | 5,234.22              | 7.01             | 14.15         | 157.60                | 6,053.47               | 6,035.19                | 18.28                     | 331.155           | 0                        |                          | 0  |         |                              |  |
| 4,000.00                      | 3,979.83              | 5,672.00              | 5,293.94              | 7.20             | 14.27         | 157.68                | 6,043.06               | 6,024.48                | 18.58                     | 325.323           | 0                        |                          | 0  |         |                              |  |
| 4,100.00                      | 4,079.13              | 5,672.00              | 5,293.94              | 7.38             | 14.27         | 157.68                | 6,033.47               | 6,014.72                | 18.75                     | 321.719           | 0                        |                          | 0  |         |                              |  |
| 4,200.00                      | 4,178.43              | 5,727.79              | 5,348.45              | 7.56             | 14.38         | 157.75                | 6,024.90               | 6,005.86                | 19.04                     | 316.490           | 0                        |                          | 0  |         |                              |  |
| 4,300.00                      | 4,277.72              | 5,766.00              | 5,385.89              | 7.75             | 14.45         | 157.79                | 6,017.36               | 5,998.07                | 19.29                     | 312.000           | 0                        |                          | 0  |         |                              |  |
| 4,400.00                      | 4,377.02              | 5,812.40              | 5,431.43              | 7.93             | 14.54         | 157.85                | 6,010.77               | 5,991.22                | 19.55                     | 307.454           | 0                        |                          | 0  |         |                              |  |
| 4,500.00                      | 4,476.32              | 5,859.00              | 5,477.27              | 8.12             | 14.63         | 157.90                | 6,005.12               | 5,985.31                | 19.81                     | 303.072           | 0                        |                          | 0  |         |                              |  |
| 4,600.00                      | 4,575.62              | 5,895.84              | 5,513.57              | 8.30             | 14.69         | 157.94                | 6,000.44               | 5,980.38                | 20.06                     | 299.139           | 0                        |                          | 0  |         |                              |  |
| 4,700.00                      | 4,674.92              | 5,953.00              | 5,570.00              | 8.49             | 14.80         | 158.00                | 5,996.83               | 5,976.49                | 20.34                     | 294.822           | 0                        |                          | 0  |         |                              |  |
| 4,800.00                      | 4,774.21              | 5,987.53              | 5,604.14              | 8.67             | 14.86         | 158.04                | 5,994.05               | 5,973.47                | 20.58                     | 291.247           | 0                        |                          | 0  |         |                              |  |
| 4,900.00                      | 4,873.51              | 6,047.00              | 5,662.99              | 8.86             | 14.96         | 158.10                | 5,992.01               | 5,971.14                | 20.87                     | 287.174           | 0                        |                          | 0  |         |                              |  |
| 5,000.00                      | 4,972.81              | 6,093.97              | 5,709.53              | 9.04             | 15.04         | 158.15                | 5,990.76               | 5,969.63                | 21.13                     | 283.571           | 0                        |                          | 0  |         |                              |  |
| 5,091.99                      | 5,064.16              | 6,140.00              | 5,755.20              | 9.21             | 15.12         | 158.19                | 5,990.42               | 5,969.05                | 21.37                     | 280.307           | 0                        |                          | 0  |         |                              |  |
| 5,100.00                      | 5,072.11              | 6,140.00              | 5,755.20              | 9.23             | 15.12         | 158.19                | 5,990.43               | 5,969.04                | 21.39                     | 280.121           | 0                        |                          | 0  |         |                              |  |

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





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | Sec.22-T07N-R67W - Lake 4-27 - Original Hole - Original Hole | Offset Site Error: | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|--|--------------------|-----------|
| Survey Program: 68-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |  |                    |           |
| 5,200.00                      | 5,171.41              | 6,183.44              | 5,798.35              | 9.41             | 15.19         | 158.23                | 5,991.02               | 5,969.38                | 21.64                     | 276.871           | 0                       |                          |  |                    |           |
| 5,300.00                      | 5,270.70              | 6,234.00              | 5,848.63              | 9.60             | 15.27         | 158.27                | 5,992.55               | 5,970.65                | 21.90                     | 273.587           | 0                       |                          |  |                    |           |
| 5,400.00                      | 5,370.00              | 6,271.69              | 5,886.15              | 9.78             | 15.32         | 158.31                | 5,995.01               | 5,972.86                | 22.15                     | 270.707           | 0                       |                          |  |                    |           |
| 5,500.00                      | 5,469.30              | 6,328.00              | 5,942.25              | 9.97             | 15.41         | 158.35                | 5,998.43               | 5,976.01                | 22.42                     | 267.557           | 0                       |                          |  |                    |           |
| 5,600.00                      | 5,568.60              | 6,328.00              | 5,942.25              | 10.15            | 15.41         | 158.35                | 6,002.93               | 5,980.33                | 22.60                     | 265.645           | 0                       |                          |  |                    |           |
| 5,700.00                      | 5,667.90              | 6,377.29              | 5,991.43              | 10.34            | 15.48         | 158.39                | 6,008.38               | 5,985.52                | 22.86                     | 262.873           | 0                       |                          |  |                    |           |
| 5,800.00                      | 5,767.20              | 6,421.00              | 6,035.09              | 10.52            | 15.54         | 158.42                | 6,015.20               | 5,992.09                | 23.11                     | 260.327           | 0                       |                          |  |                    |           |
| 5,900.00                      | 5,866.49              | 6,421.00              | 6,035.09              | 10.71            | 15.54         | 158.42                | 6,023.13               | 5,999.84                | 23.28                     | 258.674           | 0                       |                          |  |                    |           |
| 6,000.00                      | 5,965.79              | 6,474.69              | 6,088.74              | 10.89            | 15.61         | 158.45                | 6,032.04               | 6,008.50                | 23.55                     | 256.148           | 0                       |                          |  |                    |           |
| 6,100.00                      | 6,065.09              | 6,515.00              | 6,129.05              | 11.08            | 15.66         | 158.48                | 6,042.08               | 6,018.29                | 23.79                     | 253.955           | 0                       |                          |  |                    |           |
| 6,200.00                      | 6,164.39              | 6,593.89              | 6,207.93              | 11.26            | 15.76         | 158.52                | 6,052.81               | 6,028.71                | 24.09                     | 251.212           | 0                       |                          |  |                    |           |
| 6,237.42                      | 6,201.55              | 6,630.40              | 6,244.44              | 11.33            | 15.81         | 158.53                | 6,056.87               | 6,032.65                | 24.22                     | 250.095           | 0                       |                          |  |                    |           |
| 6,300.00                      | 6,263.76              | 6,696.15              | 6,310.19              | 11.45            | 15.89         | 158.60                | 6,063.00               | 6,038.59                | 24.41                     | 248.405           | 0                       |                          |  |                    |           |
| 6,400.00                      | 6,363.44              | 6,819.68              | 6,433.72              | 11.62            | 16.05         | 158.68                | 6,069.90               | 6,045.18                | 24.72                     | 245.539           | 0                       |                          |  |                    |           |
| 6,500.00                      | 6,463.34              | 6,916.26              | 6,530.29              | 11.79            | 16.18         | 158.71                | 6,073.42               | 6,048.45                | 24.97                     | 243.239           | 0                       |                          |  |                    |           |
| 6,577.05                      | 6,540.38              | 6,991.29              | 6,605.31              | 11.92            | 16.27         | 90.79                 | 6,073.98               | 6,044.18                | 29.80                     | 203.846           | 0                       |                          |  |                    |           |
| 6,600.00                      | 6,563.33              | 7,035.25              | 6,649.27              | 11.96            | 16.33         | 90.79                 | 6,073.81               | 6,043.92                | 29.90                     | 203.156           | 0                       |                          |  |                    |           |
| 6,677.05                      | 6,640.38              | 7,111.54              | 6,725.55              | 12.09            | 16.43         | 90.78                 | 6,073.01               | 6,042.87                | 30.13                     | 201.536           | 0                       |                          |  |                    |           |
| 6,700.00                      | 6,663.33              | 7,125.88              | 6,739.89              | 12.13            | 16.45         | 0.78                  | 6,072.41               | 6,046.96                | 25.45                     | 238.644           | 0                       |                          |  |                    |           |
| 6,750.00                      | 6,713.17              | 7,171.00              | 6,785.01              | 12.20            | 16.51         | 0.78                  | 6,068.38               | 6,043.13                | 25.26                     | 240.256           | 0                       |                          |  |                    |           |
| 6,800.00                      | 6,762.57              | 7,205.60              | 6,819.60              | 12.28            | 16.56         | 0.79                  | 6,060.52               | 6,035.57                | 24.95                     | 242.889           | 0                       |                          |  |                    |           |
| 6,850.00                      | 6,811.21              | 7,265.00              | 6,879.01              | 12.34            | 16.64         | 0.81                  | 6,048.76               | 6,024.17                | 24.59                     | 246.016           | 0                       |                          |  |                    |           |
| 6,900.00                      | 6,858.80              | 7,299.99              | 6,913.99              | 12.41            | 16.68         | 0.83                  | 6,033.23               | 6,009.13                | 24.09                     | 250.409           | 0                       |                          |  |                    |           |
| 6,950.00                      | 6,905.04              | 7,332.58              | 6,946.58              | 12.47            | 16.73         | 0.86                  | 6,014.12               | 5,990.61                | 23.52                     | 255.753           | 0                       |                          |  |                    |           |
| 7,000.00                      | 6,949.66              | 7,366.86              | 6,980.86              | 12.52            | 16.77         | 0.89                  | 5,991.55               | 5,968.68                | 22.87                     | 261.986           | 0                       |                          |  |                    |           |
| 7,050.00                      | 6,992.36              | 7,410.83              | 7,024.84              | 12.58            | 16.83         | 0.94                  | 5,965.57               | 5,943.39                | 22.18                     | 268.950           | 0                       |                          |  |                    |           |
| 7,100.00                      | 7,032.90              | 7,452.00              | 7,066.00              | 12.63            | 16.89         | 1.00                  | 5,936.32               | 5,914.87                | 21.45                     | 276.801           | 0                       |                          |  |                    |           |
| 7,150.00                      | 7,071.01              | 7,487.28              | 7,101.29              | 12.69            | 16.93         | 1.07                  | 5,903.98               | 5,883.30                | 20.68                     | 285.492           | 0                       |                          |  |                    |           |
| 7,200.00                      | 7,106.47              | 7,519.68              | 7,133.68              | 12.74            | 16.98         | 1.16                  | 5,868.77               | 5,848.86                | 19.91                     | 294.790           | 0                       |                          |  |                    |           |
| 7,250.00                      | 7,139.06              | 7,546.00              | 7,160.00              | 12.80            | 17.01         | 1.27                  | 5,830.90               | 5,811.75                | 19.15                     | 304.453           | 0                       |                          |  |                    |           |
| 7,300.00                      | 7,168.57              | 7,575.68              | 7,189.68              | 12.86            | 17.05         | 1.42                  | 5,790.61               | 5,772.16                | 18.45                     | 313.829           | 0                       |                          |  |                    |           |
| 7,350.00                      | 7,194.82              | 7,599.11              | 7,213.11              | 12.93            | 17.08         | 1.62                  | 5,748.13               | 5,730.31                | 17.82                     | 322.478           | 0                       |                          |  |                    |           |
| 7,400.00                      | 7,217.66              | 7,619.55              | 7,233.55              | 13.00            | 17.11         | 1.90                  | 5,703.73               | 5,686.42                | 17.31                     | 329.527           | 0                       |                          |  |                    |           |
| 7,450.00                      | 7,236.94              | 7,639.00              | 7,253.00              | 13.07            | 17.14         | 2.31                  | 5,657.67               | 5,640.73                | 16.94                     | 334.017           | 0                       |                          |  |                    |           |
| 7,500.00                      | 7,252.54              | 7,651.71              | 7,265.71              | 13.15            | 17.15         | 2.95                  | 5,610.24               | 5,593.50                | 16.74                     | 335.154           | 0                       |                          |  |                    |           |
| 7,550.00                      | 7,264.36              | 7,663.13              | 7,277.13              | 13.25            | 17.17         | 4.09                  | 5,561.72               | 5,544.96                | 16.76                     | 331.876           | 0                       |                          |  |                    |           |
| 7,600.00                      | 7,272.34              | 7,670.90              | 7,284.90              | 13.36            | 17.18         | 6.68                  | 5,512.40               | 5,495.30                | 17.10                     | 322.317           | 0                       |                          |  |                    |           |
| 7,650.00                      | 7,276.43              | 7,674.97              | 7,288.97              | 13.49            | 17.18         | 17.67                 | 5,462.60               | 5,443.65                | 18.96                     | 288.153           | 0                       |                          |  |                    |           |
| 7,677.05                      | 7,277.00              | 7,675.61              | 7,289.61              | 13.55            | 17.19         | 76.39                 | 5,435.57               | 5,405.83                | 29.74                     | 182.767           | 0                       |                          |  |                    |           |
| 7,700.00                      | 7,277.00              | 7,675.69              | 7,289.69              | 13.62            | 17.19         | 76.45                 | 5,412.62               | 5,382.75                | 29.87                     | 181.187           | 0                       |                          |  |                    |           |
| 7,800.00                      | 7,277.00              | 7,676.04              | 7,290.04              | 13.90            | 17.19         | 76.68                 | 5,312.63               | 5,282.04                | 30.59                     | 173.674           | 0                       |                          |  |                    |           |
| 7,900.00                      | 7,277.00              | 7,676.39              | 7,290.39              | 14.20            | 17.19         | 76.92                 | 5,212.64               | 5,181.31                | 31.34                     | 166.350           | 0                       |                          |  |                    |           |
| 8,000.00                      | 7,277.00              | 7,676.74              | 7,290.74              | 14.54            | 17.19         | 77.16                 | 5,112.66               | 5,080.55                | 32.11                     | 159.229           | 0                       |                          |  |                    |           |
| 8,100.00                      | 7,277.00              | 7,677.09              | 7,291.09              | 14.90            | 17.19         | 77.39                 | 5,012.67               | 4,979.76                | 32.91                     | 152.323           | 0                       |                          |  |                    |           |
| 8,200.00                      | 7,277.00              | 7,677.44              | 7,291.44              | 15.28            | 17.19         | 77.63                 | 4,912.68               | 4,878.95                | 33.73                     | 145.642           | 0                       |                          |  |                    |           |
| 8,300.00                      | 7,277.00              | 7,677.79              | 7,291.79              | 15.69            | 17.19         | 77.87                 | 4,812.70               | 4,778.12                | 34.58                     | 139.188           | 0                       |                          |  |                    |           |
| 8,400.00                      | 7,277.00              | 7,678.14              | 7,292.14              | 16.11            | 17.19         | 78.11                 | 4,712.71               | 4,677.27                | 35.44                     | 132.965           | 0                       |                          |  |                    |           |
| 8,500.00                      | 7,277.00              | 7,678.50              | 7,292.49              | 16.56            | 17.19         | 78.36                 | 4,612.73               | 4,576.40                | 36.33                     | 126.971           | 0                       |                          |  |                    |           |
| 8,600.00                      | 7,277.00              | 7,678.85              | 7,292.85              | 17.02            | 17.19         | 78.60                 | 4,512.74               | 4,475.51                | 37.23                     | 121.204           | 0                       |                          |  |                    |           |
| 8,700.00                      | 7,277.00              | 7,679.20              | 7,293.20              | 17.49            | 17.19         | 78.84                 | 4,412.76               | 4,374.61                | 38.15                     | 115.661           | 0                       |                          |  |                    |           |
| 8,800.00                      | 7,277.00              | 7,679.56              | 7,293.56              | 17.99            | 17.19         | 79.09                 | 4,312.78               | 4,273.69                | 39.09                     | 110.336           | 0                       |                          |  |                    |           |
| 8,900.00                      | 7,277.00              | 7,679.91              | 7,293.91              | 18.49            | 17.19         | 79.33                 | 4,212.80               | 4,172.76                | 40.04                     | 105.222           | 0                       |                          |  |                    |           |
| 9,000.00                      | 7,277.00              | 7,680.27              | 7,294.27              | 19.01            | 17.19         | 79.58                 | 4,112.81               | 4,071.81                | 41.00                     | 100.314           | 0                       |                          |  |                    |           |
| 9,100.00                      | 7,277.00              | 7,680.63              | 7,294.63              | 19.54            | 17.19         | 79.82                 | 4,012.83               | 3,970.86                | 41.97                     | 95.603            | 0                       |                          |  |                    |           |

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





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.22-T07N-R67W - Lake 4-27 - Original Hole - Original Hole | Offset Site Error: | 0.00 usft |
|-------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|--------------------|-----------|
| Survey Program: 68-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |                    |           |
| 9,200.00                      | 7,277.00              | 7,680.98              | 7,294.98              | 20.08            | 17.19         | 80.07                 | 3,912.86               | 3,869.90                | 42.96                     | 91.082            | 0                        |                          |  |                    |           |
| 9,300.00                      | 7,277.00              | 7,681.34              | 7,295.34              | 20.63            | 17.19         | 80.32                 | 3,812.88               | 3,768.92                | 43.96                     | 86.744            | 0                        |                          |  |                    |           |
| 9,400.00                      | 7,277.00              | 7,681.70              | 7,295.70              | 21.19            | 17.19         | 80.57                 | 3,712.90               | 3,667.94                | 44.96                     | 82.581            | 0                        |                          |  |                    |           |
| 9,500.00                      | 7,277.00              | 7,682.06              | 7,296.06              | 21.76            | 17.19         | 80.82                 | 3,612.93               | 3,566.95                | 45.98                     | 78.584            | 0                        |                          |  |                    |           |
| 9,600.00                      | 7,277.00              | 7,682.42              | 7,296.42              | 22.34            | 17.19         | 81.07                 | 3,512.95               | 3,465.95                | 47.00                     | 74.747            | 0                        |                          |  |                    |           |
| 9,700.00                      | 7,277.00              | 7,682.78              | 7,296.78              | 22.92            | 17.19         | 81.32                 | 3,412.98               | 3,364.95                | 48.03                     | 71.063            | 0                        |                          |  |                    |           |
| 9,800.00                      | 7,277.00              | 7,683.14              | 7,297.14              | 23.51            | 17.20         | 81.58                 | 3,313.01               | 3,263.94                | 49.06                     | 67.523            | 0                        |                          |  |                    |           |
| 9,900.00                      | 7,277.00              | 7,683.50              | 7,297.50              | 24.10            | 17.20         | 81.83                 | 3,213.04               | 3,162.93                | 50.11                     | 64.122            | 0                        |                          |  |                    |           |
| 10,000.00                     | 7,277.00              | 7,683.87              | 7,297.87              | 24.71            | 17.20         | 82.08                 | 3,113.07               | 3,061.91                | 51.16                     | 60.852            | 0                        |                          |  |                    |           |
| 10,100.00                     | 7,277.00              | 7,684.23              | 7,298.23              | 25.31            | 17.20         | 82.34                 | 3,013.11               | 2,960.89                | 52.21                     | 57.708            | 0                        |                          |  |                    |           |
| 10,200.00                     | 7,277.00              | 7,684.59              | 7,298.59              | 25.92            | 17.20         | 82.59                 | 2,913.14               | 2,859.87                | 53.27                     | 54.683            | 0                        |                          |  |                    |           |
| 10,300.00                     | 7,277.00              | 7,684.96              | 7,298.96              | 26.54            | 17.20         | 82.85                 | 2,813.18               | 2,758.84                | 54.34                     | 51.771            | 0                        |                          |  |                    |           |
| 10,400.00                     | 7,277.00              | 7,685.32              | 7,299.32              | 27.16            | 17.20         | 83.11                 | 2,713.23               | 2,657.82                | 55.41                     | 48.968            | 0                        |                          |  |                    |           |
| 10,500.00                     | 7,277.00              | 7,685.69              | 7,299.69              | 27.78            | 17.20         | 83.37                 | 2,613.27               | 2,556.79                | 56.48                     | 46.267            | 0                        |                          |  |                    |           |
| 10,600.00                     | 7,277.00              | 7,686.06              | 7,300.06              | 28.41            | 17.20         | 83.63                 | 2,513.32               | 2,455.76                | 57.56                     | 43.665            | 0                        |                          |  |                    |           |
| 10,700.00                     | 7,277.00              | 7,686.42              | 7,300.42              | 29.04            | 17.20         | 83.89                 | 2,413.37               | 2,354.73                | 58.64                     | 41.155            | 0                        |                          |  |                    |           |
| 10,800.00                     | 7,277.00              | 7,686.79              | 7,300.79              | 29.68            | 17.20         | 84.15                 | 2,313.43               | 2,253.71                | 59.73                     | 38.735            | 0                        |                          |  |                    |           |
| 10,900.00                     | 7,277.00              | 7,687.16              | 7,301.16              | 30.32            | 17.20         | 84.41                 | 2,213.50               | 2,152.68                | 60.81                     | 36.399            | 0                        |                          |  |                    |           |
| 11,000.00                     | 7,277.00              | 7,687.53              | 7,301.53              | 30.96            | 17.20         | 84.67                 | 2,113.56               | 2,051.66                | 61.90                     | 34.143            | 0                        |                          |  |                    |           |
| 11,100.00                     | 7,277.00              | 7,687.90              | 7,301.90              | 31.60            | 17.20         | 84.93                 | 2,013.64               | 1,950.65                | 63.00                     | 31.965            | 0                        |                          |  |                    |           |
| 11,200.00                     | 7,277.00              | 7,688.27              | 7,302.27              | 32.25            | 17.20         | 85.19                 | 1,913.72               | 1,849.63                | 64.09                     | 29.860            | 0                        |                          |  |                    |           |
| 11,300.00                     | 7,277.00              | 7,688.64              | 7,302.64              | 32.89            | 17.20         | 85.46                 | 1,813.82               | 1,748.63                | 65.19                     | 27.825            | 0                        |                          |  |                    |           |
| 11,400.00                     | 7,277.00              | 7,689.02              | 7,303.02              | 33.54            | 17.20         | 85.72                 | 1,713.92               | 1,647.63                | 66.29                     | 25.856            | 0                        |                          |  |                    |           |
| 11,500.00                     | 7,277.00              | 7,689.39              | 7,303.39              | 34.20            | 17.20         | 85.99                 | 1,614.04               | 1,546.65                | 67.39                     | 23.952            | 0                        |                          |  |                    |           |
| 11,600.00                     | 7,277.00              | 7,689.76              | 7,303.76              | 34.85            | 17.20         | 86.26                 | 1,514.17               | 1,445.68                | 68.49                     | 22.108            | 0                        |                          |  |                    |           |
| 11,700.00                     | 7,277.00              | 7,690.14              | 7,304.14              | 35.51            | 17.20         | 86.52                 | 1,414.32               | 1,344.73                | 69.59                     | 20.323            | 0                        |                          |  |                    |           |
| 11,800.00                     | 7,277.00              | 7,690.51              | 7,304.51              | 36.16            | 17.20         | 86.79                 | 1,314.49               | 1,243.79                | 70.70                     | 18.593            | 0                        |                          |  |                    |           |
| 11,900.00                     | 7,277.00              | 7,690.89              | 7,304.89              | 36.82            | 17.21         | 87.06                 | 1,214.69               | 1,142.89                | 71.80                     | 16.917            | 0                        |                          |  |                    |           |
| 12,000.00                     | 7,277.00              | 7,691.26              | 7,305.26              | 37.49            | 17.21         | 87.33                 | 1,114.93               | 1,042.02                | 72.91                     | 15.292            | 0                        |                          |  |                    |           |
| 12,100.00                     | 7,277.00              | 7,691.64              | 7,305.64              | 38.15            | 17.21         | 87.60                 | 1,015.21               | 941.20                  | 74.02                     | 13.716            | 0                        |                          |  |                    |           |
| 12,200.00                     | 7,277.00              | 7,692.02              | 7,306.02              | 38.81            | 17.21         | 87.87                 | 915.56                 | 840.44                  | 75.13                     | 12.187            | 0                        |                          |  |                    |           |
| 12,300.00                     | 7,277.00              | 7,692.40              | 7,306.40              | 39.48            | 17.21         | 88.14                 | 815.99                 | 739.76                  | 76.23                     | 10.704            | 0                        |                          |  |                    |           |
| 12,400.00                     | 7,277.00              | 7,692.78              | 7,306.78              | 40.15            | 17.21         | 88.41                 | 716.54                 | 639.20                  | 77.34                     | 9.265             | 0                        |                          |  |                    |           |
| 12,500.00                     | 7,277.00              | 7,693.16              | 7,307.16              | 40.81            | 17.21         | 88.68                 | 617.27                 | 538.82                  | 78.45                     | 7.868             | 0                        |                          |  |                    |           |
| 12,600.00                     | 7,277.00              | 7,693.54              | 7,307.54              | 41.48            | 17.21         | 88.95                 | 518.27                 | 438.71                  | 79.56                     | 6.514             | 0                        |                          |  |                    |           |
| 12,700.00                     | 7,277.00              | 7,693.92              | 7,307.92              | 42.15            | 17.21         | 89.23                 | 419.76                 | 339.09                  | 80.67                     | 5.204             | 0                        |                          |  |                    |           |
| 12,800.00                     | 7,277.00              | 7,694.30              | 7,308.30              | 42.82            | 17.21         | 89.50                 | 322.15                 | 240.38                  | 81.78                     | 3.939             | 0                        |                          |  |                    |           |
| 12,900.00                     | 7,277.00              | 7,694.68              | 7,308.68              | 43.50            | 17.21         | 89.77                 | 226.65                 | 143.77                  | 82.88                     | 2.735             | 0                        |                          |  |                    |           |
| 13,000.00                     | 7,277.00              | 7,695.07              | 7,309.07              | 44.17            | 17.21         | 90.05                 | 137.69                 | 53.70                   | 83.99                     | 1.639             | 0                        |                          |  |                    |           |
| 13,100.00                     | 7,277.00              | 7,695.45              | 7,309.45              | 44.85            | 17.21         | 90.32                 | 80.90                  | -4.19                   | 85.10                     | 0.951             | 0                        |                          | Level 1  |                    |           |
| 13,112.06                     | 7,277.00              | 7,695.50              | 7,309.50              | 44.93            | 17.21         | 90.36                 | 80.00                  | -5.62                   | 85.62                     | 0.934             | 0                        |                          | Level 1 , CC, ES, SF   |                    |           |
| 13,200.00                     | 7,277.00              | 7,695.84              | 7,309.84              | 45.52            | 17.21         | 90.60                 | 118.88                 | 32.67                   | 86.21                     | 1.379             | 0                        |                          | Level 3  |                    |           |
| 13,300.00                     | 7,277.00              | 7,696.22              | 7,310.22              | 46.20            | 17.21         | 90.88                 | 204.25                 | 116.94                  | 87.31                     | 2.339             | 0                        |                          |  |                    |           |
| 13,400.00                     | 7,277.00              | 7,696.61              | 7,310.61              | 46.87            | 17.21         | 91.15                 | 298.84                 | 210.42                  | 88.42                     | 3.380             | 0                        |                          |  |                    |           |
| 13,500.00                     | 7,277.00              | 7,697.00              | 7,311.00              | 47.55            | 17.21         | 91.43                 | 396.09                 | 306.58                  | 89.52                     | 4.425             | 0                        |                          |  |                    |           |
| 13,600.00                     | 7,277.00              | 7,697.39              | 7,311.38              | 48.23            | 17.21         | 91.71                 | 494.45                 | 403.83                  | 90.62                     | 5.456             | 0                        |                          |  |                    |           |
| 13,700.00                     | 7,277.00              | 7,697.77              | 7,311.77              | 48.91            | 17.21         | 91.99                 | 593.35                 | 501.63                  | 91.72                     | 6.469             | 0                        |                          |  |                    |           |
| 13,800.00                     | 7,277.00              | 7,698.16              | 7,312.16              | 49.59            | 17.22         | 92.26                 | 692.57                 | 599.74                  | 92.82                     | 7.461             | 0                        |                          |  |                    |           |
| 13,900.00                     | 7,277.00              | 7,698.55              | 7,312.55              | 50.27            | 17.22         | 92.54                 | 791.98                 | 698.06                  | 93.92                     | 8.433             | 0                        |                          |  |                    |           |
| 14,000.00                     | 7,277.00              | 7,698.94              | 7,312.94              | 50.95            | 17.22         | 92.82                 | 891.52                 | 796.51                  | 95.02                     | 9.383             | 0                        |                          |  |                    |           |
| 14,100.00                     | 7,277.00              | 7,699.34              | 7,313.34              | 51.63            | 17.22         | 93.10                 | 991.16                 | 895.05                  | 96.11                     | 10.313            | 0                        |                          |  |                    |           |
| 14,200.00                     | 7,277.00              | 7,699.73              | 7,313.73              | 52.31            | 17.22         | 93.38                 | 1,090.86               | 993.66                  | 97.20                     | 11.222            | 0                        |                          |  |                    |           |
| 14,300.00                     | 7,277.00              | 7,700.12              | 7,314.12              | 53.00            | 17.22         | 93.66                 | 1,190.62               | 1,092.32                | 98.29                     | 12.113            | 0                        |                          |  |                    |           |
| 14,400.00                     | 7,277.00              | 7,700.52              | 7,314.51              | 53.68            | 17.22         | 93.95                 | 1,290.41               | 1,191.02                | 99.38                     | 12.984            | 0                        |                          |  |                    |           |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                 |                       | Sec.22-T07N-R67W - Lake 4-27 - Original Hole - Original Hole |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: |  | 0.00 usft                |
|-------------------------------|-----------------------|--|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------|--|--------------------------|
| Survey Program: 68-Pathfinder |                       |  |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                    |  | Probability of Collision |
| 14,500.00                     | 7,277.00              | 7,700.91   | 7,314.91              | 54.36            | 17.22         | 94.23                 | 1,390.23               | 1,289.76                | 100.47                    | 13.837            | 0                        |                    |  |                          |
| 14,600.00                     | 7,277.00              | 7,701.31   | 7,315.31              | 55.05            | 17.22         | 94.51                 | 1,490.07               | 1,388.52                | 101.56                    | 14.672            | 0                        |                    |  |                          |
| 14,700.00                     | 7,277.00              | 7,701.70   | 7,315.70              | 55.73            | 17.22         | 94.79                 | 1,589.94               | 1,487.30                | 102.64                    | 15.491            | 0                        |                    |  |                          |
| 14,800.00                     | 7,277.00              | 7,702.10   | 7,316.10              | 56.42            | 17.22         | 95.07                 | 1,689.82               | 1,586.10                | 103.72                    | 16.292            | 0                        |                    |  |                          |
| 14,900.00                     | 7,277.00              | 7,702.50   | 7,316.50              | 57.11            | 17.22         | 95.36                 | 1,789.71               | 1,684.91                | 104.80                    | 17.078            | 0                        |                    |  |                          |
| 15,000.00                     | 7,277.00              | 7,702.90   | 7,316.89              | 57.79            | 17.22         | 95.64                 | 1,889.61               | 1,783.74                | 105.87                    | 17.848            | 0                        |                    |  |                          |
| 15,048.84                     | 7,277.00              | 7,703.09   | 7,317.09              | 58.13            | 17.22         | 95.78                 | 1,938.41               | 1,832.02                | 106.40                    | 18.219            | 0                        |                    |  |                          |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                    |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - George Nelson #1 - Original Hole - Original Hole |  | Offset Site Error: 0.00 usft |  |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|------------------------------|--|
| Survey Program: 4338-INC_ONLY<10 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                              |  |
| 0.00                             | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 86.33                 | 1,551.84               |                         |                           |                   |                          | 0                        |   |  |                              |  |
| 100.00                           | 100.00                | 88.00                 | 88.00                 | 0.15             | 0.30          | 86.33                 | 1,551.80               | 1,551.35                | 0.45                      | 3,444.024         | 0                        |                          |   |  |                              |  |
| 200.00                           | 200.00                | 188.00                | 188.00                | 0.32             | 0.65          | 86.33                 | 1,551.80               | 1,550.83                | 0.97                      | 1,598.919         | 0                        |                          |   |  |                              |  |
| 300.00                           | 300.00                | 288.00                | 288.00                | 0.50             | 0.99          | 86.33                 | 1,551.80               | 1,550.31                | 1.49                      | 1,041.138         | 0                        |                          |   |  |                              |  |
| 400.00                           | 400.00                | 388.00                | 388.00                | 0.67             | 1.34          | 86.33                 | 1,551.80               | 1,549.79                | 2.01                      | 771.872           | 0                        |                          |   |  |                              |  |
| 500.00                           | 500.00                | 488.00                | 488.00                | 0.84             | 1.69          | 86.33                 | 1,551.80               | 1,549.27                | 2.53                      | 613.265           | 0                        |                          |   |  |                              |  |
| 600.00                           | 600.00                | 588.00                | 588.00                | 1.02             | 2.03          | 86.33                 | 1,551.80               | 1,548.75                | 3.05                      | 508.730           | 0                        |                          |   |  |                              |  |
| 700.00                           | 700.00                | 688.00                | 688.00                | 1.19             | 2.38          | 86.33                 | 1,551.80               | 1,548.23                | 3.57                      | 434.642           | 0                        |                          |   |  |                              |  |
| 800.00                           | 800.00                | 788.00                | 788.00                | 1.37             | 2.72          | 86.33                 | 1,551.80               | 1,547.71                | 4.09                      | 379.390           | 0                        |                          |   |  |                              |  |
| 900.00                           | 900.00                | 888.00                | 888.00                | 1.54             | 3.07          | 86.33                 | 1,551.80               | 1,547.19                | 4.61                      | 336.601           | 0                        |                          |   |  |                              |  |
| 1,000.00                         | 999.98                | 987.98                | 987.98                | 1.72             | 3.41          | 154.26                | 1,553.37               | 1,548.24                | 5.13                      | 302.921           | 0                        |                          | CC, ES  |  |                              |  |
| 1,100.00                         | 1,099.84              | 1,087.84              | 1,087.84              | 1.89             | 3.76          | 154.31                | 1,558.08               | 1,552.44                | 5.64                      | 276.229           | 0                        |                          |   |  |                              |  |
| 1,200.00                         | 1,199.45              | 1,187.45              | 1,187.45              | 2.07             | 4.10          | 154.38                | 1,565.95               | 1,559.80                | 6.15                      | 254.754           | 0                        |                          |   |  |                              |  |
| 1,239.63                         | 1,238.83              | 1,226.83              | 1,226.83              | 2.14             | 4.24          | 154.41                | 1,569.93               | 1,563.59                | 6.35                      | 247.407           | 0                        |                          |   |  |                              |  |
| 1,300.00                         | 1,298.78              | 1,286.78              | 1,286.78              | 2.25             | 4.44          | 154.52                | 1,576.38               | 1,569.73                | 6.66                      | 236.765           | 0                        |                          |   |  |                              |  |
| 1,400.00                         | 1,398.08              | 1,386.08              | 1,386.08              | 2.43             | 4.79          | 154.71                | 1,587.08               | 1,579.91                | 7.18                      | 221.171           | 0                        |                          |   |  |                              |  |
| 1,500.00                         | 1,497.38              | 1,485.38              | 1,485.38              | 2.61             | 5.13          | 154.89                | 1,597.80               | 1,590.10                | 7.69                      | 207.672           | 0                        |                          |   |  |                              |  |
| 1,600.00                         | 1,596.68              | 1,584.68              | 1,584.68              | 2.79             | 5.47          | 155.07                | 1,608.53               | 1,600.32                | 8.21                      | 195.873           | 0                        |                          |   |  |                              |  |
| 1,700.00                         | 1,695.97              | 1,683.97              | 1,683.97              | 2.97             | 5.82          | 155.24                | 1,619.27               | 1,610.54                | 8.73                      | 185.474           | 0                        |                          |   |  |                              |  |
| 1,800.00                         | 1,795.27              | 1,783.27              | 1,783.27              | 3.15             | 6.16          | 155.42                | 1,630.04               | 1,620.79                | 9.25                      | 176.240           | 0                        |                          |   |  |                              |  |
| 1,900.00                         | 1,894.57              | 1,882.57              | 1,882.57              | 3.33             | 6.50          | 155.59                | 1,640.81               | 1,631.04                | 9.77                      | 167.986           | 0                        |                          |   |  |                              |  |
| 2,000.00                         | 1,993.87              | 1,981.87              | 1,981.87              | 3.52             | 6.85          | 155.76                | 1,651.60               | 1,641.32                | 10.29                     | 160.565           | 0                        |                          |   |  |                              |  |
| 2,100.00                         | 2,093.17              | 2,081.17              | 2,081.17              | 3.70             | 7.19          | 155.92                | 1,662.41               | 1,651.60                | 10.80                     | 153.856           | 0                        |                          |   |  |                              |  |
| 2,200.00                         | 2,192.46              | 2,180.46              | 2,180.46              | 3.88             | 7.53          | 156.09                | 1,673.22               | 1,661.90                | 11.32                     | 147.763           | 0                        |                          |   |  |                              |  |
| 2,300.00                         | 2,291.76              | 2,279.76              | 2,279.76              | 4.06             | 7.87          | 156.25                | 1,684.06               | 1,672.21                | 11.84                     | 142.205           | 0                        |                          |   |  |                              |  |
| 2,400.00                         | 2,391.06              | 2,379.06              | 2,379.06              | 4.25             | 8.22          | 156.41                | 1,694.90               | 1,682.54                | 12.36                     | 137.114           | 0                        |                          |   |  |                              |  |
| 2,500.00                         | 2,490.36              | 2,478.36              | 2,478.36              | 4.43             | 8.56          | 156.57                | 1,705.76               | 1,692.88                | 12.88                     | 132.434           | 0                        |                          |   |  |                              |  |
| 2,600.00                         | 2,589.66              | 2,577.66              | 2,577.66              | 4.62             | 8.90          | 156.73                | 1,716.63               | 1,703.23                | 13.40                     | 128.117           | 0                        |                          |   |  |                              |  |
| 2,700.00                         | 2,688.95              | 2,676.95              | 2,676.95              | 4.80             | 9.25          | 156.88                | 1,727.51               | 1,713.59                | 13.92                     | 124.123           | 0                        |                          |   |  |                              |  |
| 2,800.00                         | 2,788.25              | 2,776.25              | 2,776.25              | 4.98             | 9.59          | 157.04                | 1,738.41               | 1,723.97                | 14.44                     | 120.417           | 0                        |                          |   |  |                              |  |
| 2,900.00                         | 2,887.55              | 2,875.55              | 2,875.55              | 5.17             | 9.93          | 157.19                | 1,749.32               | 1,734.36                | 14.96                     | 116.969           | 0                        |                          |   |  |                              |  |
| 3,000.00                         | 2,986.85              | 2,974.85              | 2,974.85              | 5.35             | 10.28         | 157.34                | 1,760.24               | 1,744.76                | 15.47                     | 113.753           | 0                        |                          |   |  |                              |  |
| 3,100.00                         | 3,086.15              | 3,074.15              | 3,074.15              | 5.54             | 10.62         | 157.48                | 1,771.17               | 1,755.17                | 15.99                     | 110.746           | 0                        |                          |   |  |                              |  |
| 3,200.00                         | 3,185.44              | 3,173.44              | 3,173.44              | 5.72             | 10.96         | 157.63                | 1,782.11               | 1,765.60                | 16.51                     | 107.929           | 0                        |                          |   |  |                              |  |
| 3,300.00                         | 3,284.74              | 3,272.74              | 3,272.74              | 5.90             | 11.30         | 157.77                | 1,793.06               | 1,776.03                | 17.03                     | 105.284           | 0                        |                          |   |  |                              |  |
| 3,400.00                         | 3,384.04              | 3,372.04              | 3,372.04              | 6.09             | 11.65         | 157.91                | 1,804.03               | 1,786.48                | 17.55                     | 102.797           | 0                        |                          |   |  |                              |  |
| 3,500.00                         | 3,483.34              | 3,471.34              | 3,471.34              | 6.27             | 11.99         | 158.05                | 1,815.00               | 1,796.94                | 18.07                     | 100.453           | 0                        |                          |   |  |                              |  |
| 3,600.00                         | 3,582.64              | 3,570.64              | 3,570.64              | 6.46             | 12.33         | 158.19                | 1,825.99               | 1,807.40                | 18.59                     | 98.240            | 0                        |                          |   |  |                              |  |
| 3,700.00                         | 3,681.94              | 3,669.94              | 3,669.94              | 6.64             | 12.68         | 158.33                | 1,836.99               | 1,817.88                | 19.11                     | 96.148            | 0                        |                          |   |  |                              |  |
| 3,800.00                         | 3,781.23              | 3,769.23              | 3,769.23              | 6.83             | 13.02         | 158.47                | 1,848.00               | 1,828.37                | 19.62                     | 94.168            | 0                        |                          |   |  |                              |  |
| 3,900.00                         | 3,880.53              | 3,868.53              | 3,868.53              | 7.01             | 13.36         | 158.60                | 1,859.01               | 1,838.87                | 20.14                     | 92.289            | 0                        |                          |   |  |                              |  |
| 4,000.00                         | 3,979.83              | 3,967.83              | 3,967.83              | 7.20             | 13.71         | 158.73                | 1,870.04               | 1,849.38                | 20.66                     | 90.506            | 0                        |                          |   |  |                              |  |
| 4,100.00                         | 4,079.13              | 4,067.13              | 4,067.13              | 7.38             | 14.05         | 158.86                | 1,881.08               | 1,859.90                | 21.18                     | 88.811            | 0                        |                          |   |  |                              |  |
| 4,200.00                         | 4,178.43              | 4,166.43              | 4,166.43              | 7.56             | 14.39         | 158.99                | 1,892.12               | 1,870.42                | 21.70                     | 87.197            | 0                        |                          |   |  |                              |  |
| 4,300.00                         | 4,277.72              | 4,265.72              | 4,265.72              | 7.75             | 14.73         | 159.12                | 1,903.18               | 1,880.96                | 22.22                     | 85.659            | 0                        |                          |   |  |                              |  |
| 4,400.00                         | 4,377.02              | 4,365.00              | 4,365.00              | 7.93             | 14.98         | 159.21                | 1,914.43               | 1,891.79                | 22.64                     | 84.545            | 0                        |                          |   |  |                              |  |
| 4,500.00                         | 4,476.32              | 4,368.00              | 4,368.00              | 8.12             | 14.98         | 159.21                | 1,929.46               | 1,906.64                | 22.82                     | 84.543            | 0                        |                          | SF  |  |                              |  |
| 4,600.00                         | 4,575.62              | 4,368.00              | 4,368.00              | 8.30             | 14.98         | 159.21                | 1,949.50               | 1,926.50                | 23.00                     | 84.759            | 0                        |                          |   |  |                              |  |
| 4,700.00                         | 4,674.92              | 4,368.00              | 4,368.00              | 8.49             | 14.98         | 159.21                | 1,974.41               | 1,951.23                | 23.18                     | 85.183            | 0                        |                          |   |  |                              |  |
| 4,800.00                         | 4,774.21              | 4,368.00              | 4,368.00              | 8.67             | 14.98         | 159.21                | 2,004.01               | 1,980.65                | 23.36                     | 85.800            | 0                        |                          |   |  |                              |  |
| 4,900.00                         | 4,873.51              | 4,368.00              | 4,368.00              | 8.86             | 14.98         | 159.21                | 2,038.09               | 2,014.55                | 23.53                     | 86.599            | 0                        |                          |   |  |                              |  |
| 5,000.00                         | 4,972.81              | 4,368.00              | 4,368.00              | 9.04             | 14.98         | 159.21                | 2,076.42               | 2,052.71                | 23.71                     | 87.565            | 0                        |                          |   |  |                              |  |
| 5,100.00                         | 5,072.11              | 4,368.00              | 4,368.00              | 9.23             | 14.98         | 159.21                | 2,118.79               | 2,094.90                | 23.89                     | 88.685            | 0                        |                          |   |  |                              |  |
| 5,200.00                         | 5,171.41              | 4,368.00              | 4,368.00              | 9.41             | 14.98         | 159.21                | 2,164.96               | 2,140.89                | 24.07                     | 89.946            | 0                        |                          |   |  |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                    |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - George Nelson #1 - Original Hole - Original Hole |  | Offset Site Error: 0.00 usft |  |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|------------------------------|--|
| Survey Program: 4338-INC_ONLY<10 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                              |  |
| 5,300.00                         | 5,270.70              | 4,338.00              | 4,338.00              | 9.60             | 14.98         | 159.21                | 2,214.67               | 2,190.43                | 24.25                     | 91.336            | 0                        |                          |   |  |                              |  |
| 5,400.00                         | 5,370.00              | 4,338.00              | 4,338.00              | 9.78             | 14.98         | 159.21                | 2,267.71               | 2,243.29                | 24.43                     | 92.841            | 0                        |                          |   |  |                              |  |
| 5,500.00                         | 5,469.30              | 4,338.00              | 4,338.00              | 9.97             | 14.98         | 159.21                | 2,323.85               | 2,299.24                | 24.60                     | 94.450            | 0                        |                          |   |  |                              |  |
| 5,600.00                         | 5,568.60              | 4,338.00              | 4,338.00              | 10.15            | 14.98         | 159.21                | 2,382.86               | 2,358.08                | 24.78                     | 96.152            | 0                        |                          |   |  |                              |  |
| 5,700.00                         | 5,667.90              | 4,338.00              | 4,338.00              | 10.34            | 14.98         | 159.21                | 2,444.54               | 2,419.58                | 24.96                     | 97.937            | 0                        |                          |   |  |                              |  |
| 5,800.00                         | 5,767.20              | 4,338.00              | 4,338.00              | 10.52            | 14.98         | 159.21                | 2,508.69               | 2,483.55                | 25.14                     | 99.794            | 0                        |                          |   |  |                              |  |
| 5,900.00                         | 5,866.49              | 4,338.00              | 4,338.00              | 10.71            | 14.98         | 159.21                | 2,575.12               | 2,549.81                | 25.32                     | 101.716           | 0                        |                          |   |  |                              |  |
| 6,000.00                         | 5,965.79              | 4,338.00              | 4,338.00              | 10.89            | 14.98         | 159.21                | 2,643.67               | 2,618.18                | 25.49                     | 103.694           | 0                        |                          |   |  |                              |  |
| 6,100.00                         | 6,065.09              | 4,338.00              | 4,338.00              | 11.08            | 14.98         | 159.21                | 2,714.18               | 2,688.50                | 25.67                     | 105.720           | 0                        |                          |   |  |                              |  |
| 6,200.00                         | 6,164.39              | 4,338.00              | 4,338.00              | 11.26            | 14.98         | 159.21                | 2,786.48               | 2,760.63                | 25.85                     | 107.789           | 0                        |                          |   |  |                              |  |
| 6,237.42                         | 6,201.55              | 4,338.00              | 4,338.00              | 11.33            | 14.98         | 159.21                | 2,813.98               | 2,788.06                | 25.92                     | 108.572           | 0                        |                          |   |  |                              |  |
| 6,300.00                         | 6,263.76              | 4,338.00              | 4,338.00              | 11.45            | 14.98         | 159.69                | 2,860.03               | 2,833.98                | 26.06                     | 109.760           | 0                        |                          |   |  |                              |  |
| 6,400.00                         | 6,363.44              | 4,338.00              | 4,338.00              | 11.62            | 14.98         | 160.42                | 2,933.13               | 2,906.87                | 26.26                     | 111.698           | 0                        |                          |   |  |                              |  |
| 6,500.00                         | 6,463.34              | 4,338.00              | 4,338.00              | 11.79            | 14.98         | 161.11                | 3,005.57               | 2,979.13                | 26.44                     | 113.688           | 0                        |                          |   |  |                              |  |
| 6,577.05                         | 6,540.38              | 4,338.00              | 4,338.00              | 11.92            | 14.98         | 93.70                 | 3,060.92               | 3,034.05                | 26.87                     | 113.920           | 0                        |                          |   |  |                              |  |
| 6,600.00                         | 6,563.33              | 4,338.00              | 4,338.00              | 11.96            | 14.98         | 93.70                 | 3,077.38               | 3,050.47                | 26.91                     | 114.369           | 0                        |                          |   |  |                              |  |
| 6,677.05                         | 6,640.38              | 4,338.00              | 4,338.00              | 12.09            | 14.98         | 93.70                 | 3,133.26               | 3,106.22                | 27.04                     | 115.887           | 0                        |                          |   |  |                              |  |
| 6,700.00                         | 6,663.33              | 4,338.00              | 4,338.00              | 12.13            | 14.98         | 3.57                  | 3,149.79               | 3,123.06                | 26.73                     | 117.841           | 0                        |                          |   |  |                              |  |
| 6,750.00                         | 6,713.17              | 4,338.00              | 4,338.00              | 12.20            | 14.98         | 3.31                  | 3,184.06               | 3,157.24                | 26.82                     | 118.711           | 0                        |                          |   |  |                              |  |
| 6,800.00                         | 6,762.57              | 4,338.00              | 4,338.00              | 12.28            | 14.98         | 3.10                  | 3,215.83               | 3,189.05                | 26.78                     | 120.076           | 0                        |                          |   |  |                              |  |
| 6,850.00                         | 6,811.21              | 4,338.00              | 4,338.00              | 12.34            | 14.98         | 2.93                  | 3,244.98               | 3,218.38                | 26.61                     | 121.960           | 0                        |                          |   |  |                              |  |
| 6,900.00                         | 6,858.80              | 4,338.00              | 4,338.00              | 12.41            | 14.98         | 2.79                  | 3,271.41               | 3,245.11                | 26.30                     | 124.380           | 0                        |                          |   |  |                              |  |
| 6,950.00                         | 6,905.04              | 4,338.00              | 4,338.00              | 12.47            | 14.98         | 2.68                  | 3,295.02               | 3,269.15                | 25.87                     | 127.365           | 0                        |                          |   |  |                              |  |
| 7,000.00                         | 6,949.66              | 4,338.00              | 4,338.00              | 12.52            | 14.98         | 2.58                  | 3,315.72               | 3,290.40                | 25.32                     | 130.953           | 0                        |                          |   |  |                              |  |
| 7,050.00                         | 6,992.36              | 4,338.00              | 4,338.00              | 12.58            | 14.98         | 2.51                  | 3,333.44               | 3,308.78                | 24.66                     | 135.189           | 0                        |                          |   |  |                              |  |
| 7,100.00                         | 7,032.90              | 4,338.00              | 4,338.00              | 12.63            | 14.98         | 2.45                  | 3,348.12               | 3,324.23                | 23.89                     | 140.126           | 0                        |                          |   |  |                              |  |
| 7,150.00                         | 7,071.01              | 4,338.00              | 4,338.00              | 12.69            | 14.98         | 2.40                  | 3,359.71               | 3,336.67                | 23.04                     | 145.824           | 0                        |                          |   |  |                              |  |
| 7,200.00                         | 7,106.47              | 4,338.00              | 4,338.00              | 12.74            | 14.98         | 2.37                  | 3,368.18               | 3,346.07                | 22.11                     | 152.348           | 0                        |                          |   |  |                              |  |
| 7,250.00                         | 7,139.06              | 4,338.00              | 4,338.00              | 12.80            | 14.98         | 2.35                  | 3,373.48               | 3,352.37                | 21.12                     | 159.756           | 0                        |                          |   |  |                              |  |
| 7,300.00                         | 7,168.57              | 4,338.00              | 4,338.00              | 12.86            | 14.98         | 2.34                  | 3,375.62               | 3,355.53                | 20.08                     | 168.093           | 0                        |                          |   |  |                              |  |
| 7,350.00                         | 7,194.82              | 4,338.00              | 4,338.00              | 12.93            | 14.98         | 2.35                  | 3,374.57               | 3,355.54                | 19.03                     | 177.368           | 0                        |                          |   |  |                              |  |
| 7,400.00                         | 7,217.66              | 4,338.00              | 4,338.00              | 13.00            | 14.98         | 2.36                  | 3,370.34               | 3,352.36                | 17.97                     | 187.521           | 0                        |                          |   |  |                              |  |
| 7,450.00                         | 7,236.94              | 4,338.00              | 4,338.00              | 13.07            | 14.98         | 2.39                  | 3,362.95               | 3,345.99                | 16.95                     | 198.353           | 0                        |                          |   |  |                              |  |
| 7,500.00                         | 7,252.54              | 4,338.00              | 4,338.00              | 13.15            | 14.98         | 2.43                  | 3,352.41               | 3,336.40                | 16.01                     | 209.413           | 0                        |                          |   |  |                              |  |
| 7,550.00                         | 7,264.36              | 4,338.00              | 4,338.00              | 13.25            | 14.98         | 2.49                  | 3,338.78               | 3,323.58                | 15.19                     | 219.780           | 0                        |                          |   |  |                              |  |
| 7,600.00                         | 7,272.34              | 4,338.00              | 4,338.00              | 13.36            | 14.98         | 2.56                  | 3,322.08               | 3,307.50                | 14.59                     | 227.740           | 0                        |                          |   |  |                              |  |
| 7,650.00                         | 7,276.43              | 4,338.00              | 4,338.00              | 13.49            | 14.98         | 2.64                  | 3,302.39               | 3,288.07                | 14.32                     | 230.680           | 0                        |                          |   |  |                              |  |
| 7,677.05                         | 7,277.00              | 4,338.00              | 4,338.00              | 13.55            | 14.98         | 2.70                  | 3,290.51               | 3,276.16                | 14.35                     | 229.284           | 0                        |                          |   |  |                              |  |
| 7,700.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 13.62            | 14.98         | 2.70                  | 3,280.13               | 3,265.70                | 14.43                     | 227.321           | 0                        |                          |   |  |                              |  |
| 7,800.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 13.90            | 14.98         | 2.70                  | 3,236.42               | 3,221.65                | 14.77                     | 219.112           | 0                        |                          |   |  |                              |  |
| 7,900.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 14.20            | 14.98         | 2.70                  | 3,195.25               | 3,180.14                | 15.11                     | 211.446           | 0                        |                          |   |  |                              |  |
| 8,000.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 14.54            | 14.98         | 2.70                  | 3,156.71               | 3,141.26                | 15.45                     | 204.292           | 0                        |                          |   |  |                              |  |
| 8,100.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 14.90            | 14.98         | 2.70                  | 3,120.90               | 3,105.10                | 15.79                     | 197.622           | 0                        |                          |   |  |                              |  |
| 8,200.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 15.28            | 14.98         | 2.70                  | 3,087.91               | 3,071.78                | 16.13                     | 191.412           | 0                        |                          |   |  |                              |  |
| 8,300.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 15.69            | 14.98         | 2.70                  | 3,057.84               | 3,041.37                | 16.47                     | 185.637           | 0                        |                          |   |  |                              |  |
| 8,400.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 16.11            | 14.98         | 2.70                  | 3,030.77               | 3,013.96                | 16.81                     | 180.277           | 0                        |                          |   |  |                              |  |
| 8,500.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 16.56            | 14.98         | 2.70                  | 3,006.78               | 2,989.63                | 17.15                     | 175.310           | 0                        |                          |   |  |                              |  |
| 8,600.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 17.02            | 14.98         | 2.70                  | 2,985.96               | 2,968.47                | 17.49                     | 170.719           | 0                        |                          |   |  |                              |  |
| 8,700.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 17.49            | 14.98         | 2.70                  | 2,968.35               | 2,950.52                | 17.83                     | 166.484           | 0                        |                          |   |  |                              |  |
| 8,800.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 17.99            | 14.98         | 2.70                  | 2,954.03               | 2,935.86                | 18.17                     | 162.589           | 0                        |                          |   |  |                              |  |
| 8,900.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 18.49            | 14.98         | 2.70                  | 2,943.04               | 2,924.53                | 18.51                     | 159.018           | 0                        |                          |   |  |                              |  |
| 9,000.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 19.01            | 14.98         | 2.70                  | 2,935.42               | 2,916.57                | 18.85                     | 155.755           | 0                        |                          |   |  |                              |  |
| 9,100.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 19.54            | 14.98         | 2.70                  | 2,931.19               | 2,912.00                | 19.19                     | 152.785           | 0                        |                          |   |  |                              |  |
| 9,174.07                         | 7,277.00              | 4,338.00              | 4,338.00              | 19.94            | 14.98         | 2.70                  | 2,930.25               | 2,910.81                | 19.44                     | 150.724           | 0                        |                          |   |  |                              |  |

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



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                    |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 4338-INC_ONLY<10 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 9,200.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 20.08            | 14.98         | 2.70                  | 2,930.37               | 2,910.84                | 19.52                     | 150.093           | 0                        |                              |  |
| 9,300.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 20.63            | 14.98         | 2.70                  | 2,932.96               | 2,913.10                | 19.86                     | 147.666           | 0                        |                              |  |
| 9,400.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 21.19            | 14.98         | 2.70                  | 2,938.95               | 2,918.75                | 20.20                     | 145.489           | 0                        |                              |  |
| 9,500.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 21.76            | 14.98         | 2.70                  | 2,948.32               | 2,927.79                | 20.54                     | 143.549           | 0                        |                              |  |
| 9,600.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 22.34            | 14.98         | 2.70                  | 2,961.05               | 2,940.17                | 20.88                     | 141.832           | 0                        |                              |  |
| 9,700.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 22.92            | 14.98         | 2.70                  | 2,977.08               | 2,955.86                | 21.22                     | 140.327           | 0                        |                              |  |
| 9,800.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 23.51            | 14.98         | 2.70                  | 2,996.36               | 2,974.81                | 21.55                     | 139.020           | 0                        |                              |  |
| 9,900.00                         | 7,277.00              | 4,338.00              | 4,338.00              | 24.10            | 14.98         | 2.70                  | 3,018.83               | 2,996.94                | 21.89                     | 137.900           | 0                        |                              |  |
| 10,000.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 24.71            | 14.98         | 2.70                  | 3,044.43               | 3,022.20                | 22.23                     | 136.955           | 0                        |                              |  |
| 10,100.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 25.31            | 14.98         | 2.70                  | 3,073.07               | 3,050.50                | 22.57                     | 136.173           | 0                        |                              |  |
| 10,200.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 25.92            | 14.98         | 2.70                  | 3,104.66               | 3,081.76                | 22.91                     | 135.543           | 0                        |                              |  |
| 10,300.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 26.54            | 14.98         | 2.70                  | 3,139.13               | 3,115.88                | 23.24                     | 135.056           | 0                        |                              |  |
| 10,400.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 27.16            | 14.98         | 2.70                  | 3,176.37               | 3,152.78                | 23.58                     | 134.701           | 0                        |                              |  |
| 10,500.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 27.78            | 14.98         | 2.70                  | 3,216.28               | 3,192.37                | 23.92                     | 134.468           | 0                        |                              |  |
| 10,600.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 28.41            | 14.98         | 2.70                  | 3,258.78               | 3,234.53                | 24.26                     | 134.348           | 0                        |                              |  |
| 10,700.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 29.04            | 14.98         | 2.70                  | 3,303.76               | 3,279.17                | 24.59                     | 134.332           | 0                        |                              |  |
| 10,800.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 29.68            | 14.98         | 2.70                  | 3,351.13               | 3,326.19                | 24.93                     | 134.412           | 0                        |                              |  |
| 10,900.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 30.32            | 14.98         | 2.70                  | 3,400.77               | 3,375.50                | 25.27                     | 134.581           | 0                        |                              |  |
| 11,000.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 30.96            | 14.98         | 2.70                  | 3,452.60               | 3,426.99                | 25.61                     | 134.831           | 0                        |                              |  |
| 11,100.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 31.60            | 14.98         | 2.70                  | 3,506.51               | 3,480.56                | 25.94                     | 135.155           | 0                        |                              |  |
| 11,200.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 32.25            | 14.98         | 2.70                  | 3,562.41               | 3,536.13                | 26.28                     | 135.546           | 0                        |                              |  |
| 11,300.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 32.89            | 14.98         | 2.70                  | 3,620.22               | 3,593.60                | 26.62                     | 136.000           | 0                        |                              |  |
| 11,400.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 33.54            | 14.98         | 2.70                  | 3,679.83               | 3,652.88                | 26.96                     | 136.509           | 0                        |                              |  |
| 11,500.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 34.20            | 14.98         | 2.70                  | 3,741.17               | 3,713.88                | 27.29                     | 137.068           | 0                        |                              |  |
| 11,600.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 34.85            | 14.98         | 2.70                  | 3,804.15               | 3,776.52                | 27.63                     | 137.674           | 0                        |                              |  |
| 11,700.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 35.51            | 14.98         | 2.70                  | 3,868.69               | 3,840.72                | 27.97                     | 138.321           | 0                        |                              |  |
| 11,800.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 36.16            | 14.98         | 2.70                  | 3,934.71               | 3,906.40                | 28.31                     | 139.005           | 0                        |                              |  |
| 11,900.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 36.82            | 14.98         | 2.70                  | 4,002.14               | 3,973.49                | 28.64                     | 139.722           | 0                        |                              |  |
| 12,000.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 37.49            | 14.98         | 2.70                  | 4,070.91               | 4,041.93                | 28.98                     | 140.468           | 0                        |                              |  |
| 12,100.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 38.15            | 14.98         | 2.70                  | 4,140.95               | 4,111.63                | 29.32                     | 141.242           | 0                        |                              |  |
| 12,200.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 38.81            | 14.98         | 2.70                  | 4,212.20               | 4,182.55                | 29.66                     | 142.038           | 0                        |                              |  |
| 12,300.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 39.48            | 14.98         | 2.70                  | 4,284.61               | 4,254.61                | 29.99                     | 142.855           | 0                        |                              |  |
| 12,400.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 40.15            | 14.98         | 2.70                  | 4,358.10               | 4,327.77                | 30.33                     | 143.690           | 0                        |                              |  |
| 12,500.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 40.81            | 14.98         | 2.70                  | 4,432.63               | 4,401.96                | 30.67                     | 144.540           | 0                        |                              |  |
| 12,600.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 41.48            | 14.98         | 2.70                  | 4,508.15               | 4,477.14                | 31.00                     | 145.404           | 0                        |                              |  |
| 12,700.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 42.15            | 14.98         | 2.70                  | 4,584.60               | 4,553.26                | 31.34                     | 146.279           | 0                        |                              |  |
| 12,800.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 42.82            | 14.98         | 2.70                  | 4,661.95               | 4,630.27                | 31.68                     | 147.163           | 0                        |                              |  |
| 12,900.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 43.50            | 14.98         | 2.70                  | 4,740.14               | 4,708.13                | 32.02                     | 148.056           | 0                        |                              |  |
| 13,000.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 44.17            | 14.98         | 2.70                  | 4,819.14               | 4,786.79                | 32.35                     | 148.955           | 0                        |                              |  |
| 13,100.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 44.85            | 14.98         | 2.70                  | 4,898.91               | 4,866.22                | 32.69                     | 149.859           | 0                        |                              |  |
| 13,200.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 45.52            | 14.98         | 2.70                  | 4,979.41               | 4,946.38                | 33.03                     | 150.767           | 0                        |                              |  |
| 13,300.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 46.20            | 14.98         | 2.70                  | 5,060.60               | 5,027.24                | 33.36                     | 151.677           | 0                        |                              |  |
| 13,400.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 46.87            | 14.98         | 2.70                  | 5,142.46               | 5,108.76                | 33.70                     | 152.589           | 0                        |                              |  |
| 13,500.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 47.55            | 14.98         | 2.70                  | 5,224.95               | 5,190.91                | 34.04                     | 153.501           | 0                        |                              |  |
| 13,600.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 48.23            | 14.98         | 2.70                  | 5,308.04               | 5,273.66                | 34.38                     | 154.413           | 0                        |                              |  |
| 13,700.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 48.91            | 14.98         | 2.70                  | 5,391.70               | 5,356.99                | 34.71                     | 155.324           | 0                        |                              |  |
| 13,800.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 49.59            | 14.98         | 2.70                  | 5,475.92               | 5,440.87                | 35.05                     | 156.233           | 0                        |                              |  |
| 13,900.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 50.27            | 14.98         | 2.70                  | 5,560.65               | 5,525.26                | 35.39                     | 157.140           | 0                        |                              |  |
| 14,000.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 50.95            | 14.98         | 2.70                  | 5,645.89               | 5,610.16                | 35.72                     | 158.043           | 0                        |                              |  |
| 14,100.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 51.63            | 14.98         | 2.70                  | 5,731.60               | 5,695.54                | 36.06                     | 158.943           | 0                        |                              |  |
| 14,200.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 52.31            | 14.98         | 2.70                  | 5,817.77               | 5,781.37                | 36.40                     | 159.839           | 0                        |                              |  |
| 14,300.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 53.00            | 14.98         | 2.70                  | 5,904.37               | 5,867.64                | 36.73                     | 160.730           | 0                        |                              |  |
| 14,400.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 53.68            | 14.98         | 2.70                  | 5,991.39               | 5,954.32                | 37.07                     | 161.616           | 0                        |                              |  |
| 14,500.00                        | 7,277.00              | 4,338.00              | 4,338.00              | 54.36            | 14.98         | 2.70                  | 6,078.81               | 6,041.40                | 37.41                     | 162.497           | 0                        |                              |  |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|  |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |                           |           |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| <b>Offset Design</b> Sec.28-T07N-R67W - George Nelson #1 - Original Hole - Original Hole |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
| Survey Program: 4338-INC_ONLY<10   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,600.00  | 7,277.00              | 4,338.00              | 4,338.00              | 55.05            | 14.98         | 2.70                  | 6,166.62               | 6,128.87                | 37.75                     | 163.373           | 0                        |                          |                           |           |
| 14,700.00  | 7,277.00              | 4,338.00              | 4,338.00              | 55.73            | 14.98         | 2.70                  | 6,254.78               | 6,216.70                | 38.08                     | 164.242           | 0                        |                          |                           |           |
| 14,800.00  | 7,277.00              | 4,338.00              | 4,338.00              | 56.42            | 14.98         | 2.70                  | 6,343.31               | 6,304.89                | 38.42                     | 165.106           | 0                        |                          |                           |           |
| 14,900.00  | 7,277.00              | 4,338.00              | 4,338.00              | 57.11            | 14.98         | 2.70                  | 6,432.16               | 6,393.41                | 38.76                     | 165.963           | 0                        |                          |                           |           |
| 15,000.00  | 7,277.00              | 4,338.00              | 4,338.00              | 57.79            | 14.98         | 2.70                  | 6,521.34               | 6,482.25                | 39.09                     | 166.814           | 0                        |                          |                           |           |
| 15,048.84  | 7,277.00              | 4,338.00              | 4,338.00              | 58.13            | 14.98         | 2.70                  | 6,565.01               | 6,525.75                | 39.26                     | 167.227           | 0                        |                          |                           |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #1 - Original Hole - Rev 0 |  | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                              |  |
| 0.00                         | 0.00                  | 3.00                  | 3.00                  | 0.00             | 0.00          | 0.18                  | 84.17                  |                         |                           |                   |                          |                          |   |  |                              |  |
| 100.00                       | 100.00                | 103.00                | 103.00                | 0.15             | 0.15          | 0.18                  | 84.17                  | 83.87                   | 0.30                      | 282.015           | 0                        |                          |   |  |                              |  |
| 200.00                       | 200.00                | 203.00                | 203.00                | 0.32             | 0.33          | 0.18                  | 84.17                  | 83.52                   | 0.65                      | 129.985           | 0                        |                          |   |  |                              |  |
| 300.00                       | 300.00                | 303.00                | 303.00                | 0.50             | 0.50          | 0.18                  | 84.17                  | 83.17                   | 1.00                      | 84.456            | 0                        |                          |   |  |                              |  |
| 400.00                       | 400.00                | 403.00                | 403.00                | 0.67             | 0.68          | 0.18                  | 84.17                  | 82.82                   | 1.35                      | 62.548            | 0                        |                          |   |  |                              |  |
| 500.00                       | 500.00                | 503.00                | 503.00                | 0.84             | 0.85          | 0.18                  | 84.17                  | 82.47                   | 1.69                      | 49.665            | 0                        |                          |   |  |                              |  |
| 565.64                       | 565.64                | 568.64                | 568.64                | 0.96             | 0.96          | 0.18                  | 84.17                  | 82.24                   | 1.92                      | 43.750            | 0                        |                          | CC  |  |                              |  |
| 600.00                       | 600.00                | 602.93                | 602.93                | 1.02             | 1.02          | 0.18                  | 84.17                  | 82.13                   | 2.04                      | 41.185            | 0                        |                          | ES  |  |                              |  |
| 700.00                       | 700.00                | 700.00                | 699.98                | 1.19             | 1.19          | -0.56                 | 85.57                  | 83.18                   | 2.39                      | 35.832            | 0                        |                          |   |  |                              |  |
| 800.00                       | 800.00                | 798.20                | 798.05                | 1.37             | 1.37          | -2.63                 | 89.68                  | 86.94                   | 2.74                      | 32.774            | 0                        |                          |   |  |                              |  |
| 900.00                       | 900.00                | 895.26                | 894.74                | 1.54             | 1.54          | -5.62                 | 96.69                  | 93.61                   | 3.09                      | 31.336            | 0                        |                          |   |  |                              |  |
| 1,000.00                     | 999.98                | 991.83                | 990.61                | 1.72             | 1.71          | 59.44                 | 105.94                 | 102.51                  | 3.43                      | 30.894            | 0                        |                          |   |  |                              |  |
| 1,100.00                     | 1,099.84              | 1,088.46              | 1,086.10              | 1.89             | 1.89          | 57.62                 | 116.43                 | 112.65                  | 3.78                      | 30.821            | 0                        |                          |   |  |                              |  |
| 1,200.00                     | 1,199.45              | 1,187.97              | 1,184.25              | 2.07             | 2.07          | 57.11                 | 126.18                 | 122.05                  | 4.13                      | 30.548            | 0                        |                          |   |  |                              |  |
| 1,239.63                     | 1,238.83              | 1,227.46              | 1,223.19              | 2.14             | 2.15          | 57.29                 | 129.53                 | 125.26                  | 4.27                      | 30.328            | 0                        |                          |   |  |                              |  |
| 1,300.00                     | 1,298.78              | 1,287.62              | 1,282.53              | 2.25             | 2.26          | 57.78                 | 134.41                 | 129.93                  | 4.49                      | 29.959            | 0                        |                          |   |  |                              |  |
| 1,400.00                     | 1,398.08              | 1,387.28              | 1,380.82              | 2.43             | 2.45          | 58.52                 | 142.52                 | 137.67                  | 4.84                      | 29.415            | 0                        |                          |   |  |                              |  |
| 1,500.00                     | 1,497.38              | 1,486.93              | 1,479.11              | 2.61             | 2.64          | 59.17                 | 150.64                 | 145.44                  | 5.20                      | 28.944            | 0                        |                          |   |  |                              |  |
| 1,600.00                     | 1,596.68              | 1,586.59              | 1,577.40              | 2.79             | 2.83          | 59.76                 | 158.79                 | 153.22                  | 5.57                      | 28.531            | 0                        |                          |   |  |                              |  |
| 1,700.00                     | 1,695.97              | 1,686.24              | 1,675.69              | 2.97             | 3.02          | 60.29                 | 166.94                 | 161.02                  | 5.93                      | 28.166            | 0                        |                          |   |  |                              |  |
| 1,800.00                     | 1,795.27              | 1,785.90              | 1,773.97              | 3.15             | 3.21          | 60.77                 | 175.11                 | 168.82                  | 6.29                      | 27.842            | 0                        |                          |   |  |                              |  |
| 1,900.00                     | 1,894.57              | 1,885.55              | 1,872.26              | 3.33             | 3.40          | 61.21                 | 183.30                 | 176.64                  | 6.65                      | 27.552            | 0                        |                          |   |  |                              |  |
| 2,000.00                     | 1,993.87              | 1,985.21              | 1,970.55              | 3.52             | 3.59          | 61.61                 | 191.49                 | 184.47                  | 7.02                      | 27.292            | 0                        |                          |   |  |                              |  |
| 2,100.00                     | 2,093.17              | 2,084.86              | 2,068.84              | 3.70             | 3.78          | 61.98                 | 199.69                 | 192.31                  | 7.38                      | 27.056            | 0                        |                          |   |  |                              |  |
| 2,200.00                     | 2,192.46              | 2,184.52              | 2,167.13              | 3.88             | 3.97          | 62.32                 | 207.90                 | 200.15                  | 7.75                      | 26.841            | 0                        |                          |   |  |                              |  |
| 2,300.00                     | 2,291.76              | 2,284.17              | 2,265.42              | 4.06             | 4.17          | 62.64                 | 216.11                 | 208.00                  | 8.11                      | 26.644            | 0                        |                          |   |  |                              |  |
| 2,400.00                     | 2,391.06              | 2,383.83              | 2,363.71              | 4.25             | 4.36          | 62.93                 | 224.33                 | 215.86                  | 8.48                      | 26.464            | 0                        |                          |   |  |                              |  |
| 2,500.00                     | 2,490.36              | 2,483.48              | 2,462.00              | 4.43             | 4.55          | 63.20                 | 232.56                 | 223.72                  | 8.84                      | 26.298            | 0                        |                          |   |  |                              |  |
| 2,600.00                     | 2,589.66              | 2,583.14              | 2,560.28              | 4.62             | 4.74          | 63.45                 | 240.79                 | 231.58                  | 9.21                      | 26.145            | 0                        |                          |   |  |                              |  |
| 2,700.00                     | 2,688.95              | 2,682.80              | 2,658.57              | 4.80             | 4.94          | 63.68                 | 249.02                 | 239.45                  | 9.58                      | 26.004            | 0                        |                          |   |  |                              |  |
| 2,800.00                     | 2,788.25              | 2,782.45              | 2,756.86              | 4.98             | 5.13          | 63.90                 | 257.26                 | 247.32                  | 9.94                      | 25.873            | 0                        |                          |   |  |                              |  |
| 2,900.00                     | 2,887.55              | 2,882.11              | 2,855.15              | 5.17             | 5.32          | 64.11                 | 265.51                 | 255.20                  | 10.31                     | 25.751            | 0                        |                          |   |  |                              |  |
| 3,000.00                     | 2,986.85              | 2,981.76              | 2,953.44              | 5.35             | 5.51          | 64.30                 | 273.75                 | 263.07                  | 10.68                     | 25.637            | 0                        |                          |   |  |                              |  |
| 3,100.00                     | 3,086.15              | 3,081.42              | 3,051.73              | 5.54             | 5.71          | 64.49                 | 282.00                 | 270.95                  | 11.05                     | 25.531            | 0                        |                          |   |  |                              |  |
| 3,200.00                     | 3,185.44              | 3,181.07              | 3,150.02              | 5.72             | 5.90          | 64.66                 | 290.25                 | 278.84                  | 11.41                     | 25.431            | 0                        |                          |   |  |                              |  |
| 3,300.00                     | 3,284.74              | 3,280.73              | 3,248.30              | 5.90             | 6.09          | 64.82                 | 298.51                 | 286.72                  | 11.78                     | 25.338            | 0                        |                          |   |  |                              |  |
| 3,400.00                     | 3,384.04              | 3,380.38              | 3,346.59              | 6.09             | 6.29          | 64.97                 | 306.76                 | 294.61                  | 12.15                     | 25.250            | 0                        |                          |   |  |                              |  |
| 3,500.00                     | 3,483.34              | 3,480.04              | 3,444.88              | 6.27             | 6.48          | 65.12                 | 315.02                 | 302.50                  | 12.52                     | 25.167            | 0                        |                          |   |  |                              |  |
| 3,600.00                     | 3,582.64              | 3,579.69              | 3,543.17              | 6.46             | 6.67          | 65.26                 | 323.28                 | 310.39                  | 12.89                     | 25.089            | 0                        |                          |   |  |                              |  |
| 3,700.00                     | 3,681.94              | 3,679.35              | 3,641.46              | 6.64             | 6.87          | 65.39                 | 331.54                 | 318.29                  | 13.25                     | 25.015            | 0                        |                          |   |  |                              |  |
| 3,800.00                     | 3,781.23              | 3,779.00              | 3,739.75              | 6.83             | 7.06          | 65.51                 | 339.81                 | 326.18                  | 13.62                     | 24.946            | 0                        |                          |   |  |                              |  |
| 3,900.00                     | 3,880.53              | 3,878.66              | 3,838.04              | 7.01             | 7.25          | 65.63                 | 348.07                 | 334.08                  | 13.99                     | 24.879            | 0                        |                          |   |  |                              |  |
| 4,000.00                     | 3,979.83              | 3,978.31              | 3,936.32              | 7.20             | 7.45          | 65.75                 | 356.34                 | 341.98                  | 14.36                     | 24.817            | 0                        |                          |   |  |                              |  |
| 4,100.00                     | 4,079.13              | 4,077.97              | 4,034.61              | 7.38             | 7.64          | 65.86                 | 364.60                 | 349.88                  | 14.73                     | 24.757            | 0                        |                          |   |  |                              |  |
| 4,200.00                     | 4,178.43              | 4,177.62              | 4,132.90              | 7.56             | 7.84          | 65.96                 | 372.87                 | 357.78                  | 15.10                     | 24.700            | 0                        |                          |   |  |                              |  |
| 4,300.00                     | 4,277.72              | 4,277.28              | 4,231.19              | 7.75             | 8.03          | 66.06                 | 381.14                 | 365.68                  | 15.46                     | 24.646            | 0                        |                          |   |  |                              |  |
| 4,400.00                     | 4,377.02              | 4,376.94              | 4,329.48              | 7.93             | 8.22          | 66.15                 | 389.42                 | 373.58                  | 15.83                     | 24.594            | 0                        |                          |   |  |                              |  |
| 4,500.00                     | 4,476.32              | 4,476.59              | 4,427.77              | 8.12             | 8.42          | 66.24                 | 397.69                 | 381.48                  | 16.20                     | 24.545            | 0                        |                          |   |  |                              |  |
| 4,600.00                     | 4,575.62              | 4,576.25              | 4,526.06              | 8.30             | 8.61          | 66.33                 | 405.96                 | 389.39                  | 16.57                     | 24.498            | 0                        |                          |   |  |                              |  |
| 4,700.00                     | 4,674.92              | 4,675.90              | 4,624.35              | 8.49             | 8.80          | 66.42                 | 414.23                 | 397.29                  | 16.94                     | 24.452            | 0                        |                          |   |  |                              |  |
| 4,800.00                     | 4,774.21              | 4,775.56              | 4,722.63              | 8.67             | 9.00          | 66.50                 | 422.51                 | 405.20                  | 17.31                     | 24.409            | 0                        |                          |   |  |                              |  |
| 4,900.00                     | 4,873.51              | 4,875.21              | 4,820.92              | 8.86             | 9.19          | 66.57                 | 430.79                 | 413.11                  | 17.68                     | 24.368            | 0                        |                          |   |  |                              |  |
| 5,000.00                     | 4,972.81              | 4,974.87              | 4,919.21              | 9.04             | 9.39          | 66.65                 | 439.06                 | 421.01                  | 18.05                     | 24.328            | 0                        |                          |   |  |                              |  |
| 5,100.00                     | 5,072.11              | 5,074.52              | 5,017.50              | 9.23             | 9.58          | 66.72                 | 447.34                 | 428.92                  | 18.42                     | 24.290            | 0                        |                          |   |  |                              |  |

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





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #1 - Original Hole - Rev 0 | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |                    |           |
| 5,200.00                     | 5,171.41              | 5,174.18              | 5,115.79              | 9.41             | 9.77          | 66.79                 | 455.62                 | 436.83                  | 18.79                     | 24.253            | 0                        |                          |   |                    |           |
| 5,300.00                     | 5,270.70              | 5,273.83              | 5,214.08              | 9.60             | 9.97          | 66.86                 | 463.90                 | 444.74                  | 19.16                     | 24.218            | 0                        |                          |   |                    |           |
| 5,400.00                     | 5,370.00              | 5,373.49              | 5,312.37              | 9.78             | 10.16         | 66.92                 | 472.18                 | 452.65                  | 19.52                     | 24.184            | 0                        |                          |   |                    |           |
| 5,500.00                     | 5,469.30              | 5,473.14              | 5,410.65              | 9.97             | 10.35         | 66.98                 | 480.45                 | 460.56                  | 19.89                     | 24.151            | 0                        |                          |   |                    |           |
| 5,600.00                     | 5,568.60              | 5,572.80              | 5,508.94              | 10.15            | 10.55         | 67.04                 | 488.74                 | 468.47                  | 20.26                     | 24.120            | 0                        |                          |   |                    |           |
| 5,700.00                     | 5,667.90              | 5,672.45              | 5,607.23              | 10.34            | 10.74         | 67.10                 | 497.02                 | 476.38                  | 20.63                     | 24.089            | 0                        |                          |   |                    |           |
| 5,800.00                     | 5,767.20              | 5,772.11              | 5,705.52              | 10.52            | 10.94         | 67.16                 | 505.30                 | 484.30                  | 21.00                     | 24.060            | 0                        |                          |   |                    |           |
| 5,900.00                     | 5,866.49              | 5,871.77              | 5,803.81              | 10.71            | 11.13         | 67.21                 | 513.58                 | 492.21                  | 21.37                     | 24.031            | 0                        |                          |   |                    |           |
| 6,000.00                     | 5,965.79              | 5,971.42              | 5,902.10              | 10.89            | 11.32         | 67.26                 | 521.86                 | 500.12                  | 21.74                     | 24.004            | 0                        |                          |   |                    |           |
| 6,100.00                     | 6,065.09              | 6,071.08              | 6,000.39              | 11.08            | 11.52         | 67.31                 | 530.14                 | 508.03                  | 22.11                     | 23.978            | 0                        |                          |   |                    |           |
| 6,200.00                     | 6,164.39              | 6,176.09              | 6,104.00              | 11.26            | 11.72         | 67.38                 | 538.27                 | 515.78                  | 22.49                     | 23.935            | 0                        |                          |   |                    |           |
| 6,237.42                     | 6,201.55              | 6,219.78              | 6,147.23              | 11.33            | 11.80         | 67.46                 | 540.78                 | 518.14                  | 22.64                     | 23.888            | 0                        |                          |   |                    |           |
| 6,300.00                     | 6,263.76              | 6,292.94              | 6,219.82              | 11.45            | 11.94         | 67.68                 | 544.25                 | 521.37                  | 22.88                     | 23.786            | 0                        |                          |   |                    |           |
| 6,400.00                     | 6,363.44              | 6,410.04              | 6,336.42              | 11.62            | 12.14         | 67.94                 | 548.33                 | 525.07                  | 23.26                     | 23.576            | 0                        |                          |   |                    |           |
| 6,500.00                     | 6,463.34              | 6,527.30              | 6,453.52              | 11.79            | 12.34         | 68.09                 | 550.58                 | 526.95                  | 23.62                     | 23.309            | 0                        |                          |   |                    |           |
| 6,577.05                     | 6,540.38              | 6,617.18              | 6,543.38              | 11.92            | 12.48         | 0.21                  | 551.05                 | 527.30                  | 23.75                     | 23.201            | 0                        |                          |   |                    |           |
| 6,600.00                     | 6,563.33              | 6,640.13              | 6,566.33              | 11.96            | 12.52         | 0.21                  | 551.05                 | 527.22                  | 23.83                     | 23.125            | 0                        |                          |   |                    |           |
| 6,650.33                     | 6,613.66              | 6,690.45              | 6,616.66              | 12.05            | 12.60         | 0.21                  | 551.05                 | 527.05                  | 24.00                     | 22.961            | 0                        |                          |   |                    |           |
| 6,677.05                     | 6,640.38              | 6,717.17              | 6,643.37              | 12.09            | 12.64         | 0.21                  | 551.05                 | 526.96                  | 24.09                     | 22.875            | 0                        |                          |   |                    |           |
| 6,700.00                     | 6,663.33              | 6,740.04              | 6,666.24              | 12.13            | 12.68         | -89.78                | 551.05                 | 526.75                  | 24.30                     | 22.676            | 0                        |                          |   |                    |           |
| 6,750.00                     | 6,713.17              | 6,789.86              | 6,715.89              | 12.20            | 12.75         | -89.75                | 551.05                 | 526.60                  | 24.45                     | 22.534            | 0                        |                          |   |                    |           |
| 6,800.00                     | 6,762.57              | 6,839.67              | 6,765.06              | 12.28            | 12.82         | -89.73                | 551.05                 | 526.46                  | 24.60                     | 22.403            | 0                        |                          |   |                    |           |
| 6,850.00                     | 6,811.21              | 6,889.46              | 6,813.46              | 12.34            | 12.89         | -89.71                | 551.05                 | 526.32                  | 24.73                     | 22.281            | 0                        |                          |   |                    |           |
| 6,900.00                     | 6,858.80              | 6,939.24              | 6,860.78              | 12.41            | 12.95         | -89.69                | 551.06                 | 526.20                  | 24.86                     | 22.167            | 0                        |                          |   |                    |           |
| 6,950.00                     | 6,905.04              | 6,989.00              | 6,906.75              | 12.47            | 13.00         | -89.68                | 551.06                 | 526.08                  | 24.98                     | 22.060            | 0                        |                          |   |                    |           |
| 7,000.00                     | 6,949.66              | 7,038.75              | 6,951.08              | 12.52            | 13.06         | -89.66                | 551.06                 | 525.96                  | 25.09                     | 21.959            | 0                        |                          |   |                    |           |
| 7,050.00                     | 6,992.36              | 7,088.50              | 6,993.50              | 12.58            | 13.11         | -89.65                | 551.06                 | 525.85                  | 25.21                     | 21.862            | 0                        |                          |   |                    |           |
| 7,100.00                     | 7,032.90              | 7,138.23              | 7,033.76              | 12.63            | 13.16         | -89.64                | 551.06                 | 525.74                  | 25.32                     | 21.767            | 0                        |                          |   |                    |           |
| 7,150.00                     | 7,071.01              | 7,187.96              | 7,071.62              | 12.69            | 13.22         | -89.63                | 551.06                 | 525.63                  | 25.43                     | 21.672            | 0                        |                          |   |                    |           |
| 7,200.00                     | 7,106.47              | 7,237.68              | 7,106.85              | 12.74            | 13.27         | -89.63                | 551.06                 | 525.52                  | 25.54                     | 21.574            | 0                        |                          |   |                    |           |
| 7,250.00                     | 7,139.06              | 7,287.40              | 7,139.23              | 12.80            | 13.33         | -89.62                | 551.06                 | 525.40                  | 25.66                     | 21.473            | 0                        |                          |   |                    |           |
| 7,300.00                     | 7,168.57              | 7,337.12              | 7,168.56              | 12.86            | 13.38         | -89.62                | 551.06                 | 525.27                  | 25.79                     | 21.366            | 0                        |                          |   |                    |           |
| 7,350.00                     | 7,194.82              | 7,386.83              | 7,194.68              | 12.93            | 13.44         | -89.62                | 551.06                 | 525.13                  | 25.93                     | 21.251            | 0                        |                          |   |                    |           |
| 7,400.00                     | 7,217.66              | 7,436.55              | 7,217.42              | 13.00            | 13.51         | -89.63                | 551.06                 | 524.98                  | 26.08                     | 21.127            | 0                        |                          |   |                    |           |
| 7,450.00                     | 7,236.94              | 7,486.28              | 7,236.64              | 13.07            | 13.58         | -89.63                | 551.06                 | 524.81                  | 26.25                     | 20.992            | 0                        |                          |   |                    |           |
| 7,500.00                     | 7,252.54              | 7,536.00              | 7,252.23              | 13.15            | 13.66         | -89.64                | 551.06                 | 524.62                  | 26.43                     | 20.847            | 0                        |                          |   |                    |           |
| 7,550.00                     | 7,264.36              | 7,585.74              | 7,264.09              | 13.25            | 13.74         | -89.65                | 551.06                 | 524.42                  | 26.63                     | 20.690            | 0                        |                          |   |                    |           |
| 7,600.00                     | 7,272.34              | 7,635.48              | 7,272.14              | 13.36            | 13.83         | -89.66                | 551.06                 | 524.21                  | 26.85                     | 20.522            | 0                        |                          |   |                    |           |
| 7,650.00                     | 7,276.43              | 7,685.23              | 7,276.34              | 13.49            | 13.93         | -89.68                | 551.06                 | 523.97                  | 27.09                     | 20.345            | 0                        |                          |   |                    |           |
| 7,677.05                     | 7,277.00              | 7,712.16              | 7,277.00              | 13.55            | 14.00         | -89.69                | 551.06                 | 523.84                  | 27.22                     | 20.246            | 0                        |                          |   |                    |           |
| 7,679.33                     | 7,277.00              | 7,714.43              | 7,277.00              | 13.56            | 14.00         | -89.69                | 551.06                 | 523.83                  | 27.23                     | 20.237            | 0                        |                          |   |                    |           |
| 7,700.00                     | 7,277.00              | 7,735.10              | 7,277.00              | 13.62            | 14.05         | -89.69                | 551.06                 | 523.72                  | 27.34                     | 20.157            | 0                        |                          |   |                    |           |
| 7,800.00                     | 7,277.00              | 7,835.10              | 7,277.00              | 13.90            | 14.31         | -89.69                | 551.06                 | 523.17                  | 27.89                     | 19.760            | 0                        |                          |   |                    |           |
| 7,900.00                     | 7,277.00              | 7,935.10              | 7,277.00              | 14.20            | 14.60         | -89.69                | 551.06                 | 522.56                  | 28.50                     | 19.338            | 0                        |                          |   |                    |           |
| 8,000.00                     | 7,277.00              | 8,035.10              | 7,277.00              | 14.54            | 14.93         | -89.69                | 551.06                 | 521.90                  | 29.16                     | 18.898            | 0                        |                          |   |                    |           |
| 8,100.00                     | 7,277.00              | 8,135.09              | 7,277.00              | 14.90            | 15.28         | -89.69                | 551.06                 | 521.18                  | 29.87                     | 18.446            | 0                        |                          |   |                    |           |
| 8,200.00                     | 7,277.00              | 8,235.09              | 7,277.00              | 15.28            | 15.66         | -89.69                | 551.06                 | 520.42                  | 30.64                     | 17.987            | 0                        |                          |   |                    |           |
| 8,300.00                     | 7,277.00              | 8,335.09              | 7,277.00              | 15.69            | 16.05         | -89.69                | 551.06                 | 519.61                  | 31.44                     | 17.525            | 0                        |                          |   |                    |           |
| 8,400.00                     | 7,277.00              | 8,435.09              | 7,277.00              | 16.11            | 16.47         | -89.69                | 551.06                 | 518.77                  | 32.29                     | 17.065            | 0                        |                          |   |                    |           |
| 8,500.00                     | 7,277.00              | 8,535.09              | 7,277.00              | 16.56            | 16.91         | -89.69                | 551.06                 | 517.88                  | 33.18                     | 16.609            | 0                        |                          |   |                    |           |
| 8,600.00                     | 7,277.00              | 8,635.09              | 7,277.00              | 17.02            | 17.37         | -89.69                | 551.06                 | 516.96                  | 34.10                     | 16.160            | 0                        |                          |   |                    |           |
| 8,700.00                     | 7,277.00              | 8,735.09              | 7,277.00              | 17.49            | 17.84         | -89.69                | 551.06                 | 516.01                  | 35.05                     | 15.721            | 0                        |                          |   |                    |           |
| 8,800.00                     | 7,277.00              | 8,835.09              | 7,277.00              | 17.99            | 18.32         | -89.69                | 551.06                 | 515.02                  | 36.04                     | 15.292            | 0                        |                          |   |                    |           |
| 8,900.00                     | 7,277.00              | 8,935.09              | 7,277.00              | 18.49            | 18.82         | -89.69                | 551.06                 | 514.01                  | 37.05                     | 14.875            | 0                        |                          |   |                    |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 9,000.00                     | 7,277.00              | 9,035.09              | 7,277.00              | 19.01            | 19.33         | -89.69                | 551.06                 | 512.98                  | 38.08                     | 14.470            | 0                        |                              |  |
| 9,100.00                     | 7,277.00              | 9,135.09              | 7,277.00              | 19.54            | 19.85         | -89.69                | 551.06                 | 511.92                  | 39.14                     | 14.078            | 0                        |                              |  |
| 9,200.00                     | 7,277.00              | 9,235.09              | 7,277.00              | 20.08            | 20.39         | -89.69                | 551.06                 | 510.84                  | 40.22                     | 13.700            | 0                        |                              |  |
| 9,300.00                     | 7,277.00              | 9,335.09              | 7,277.00              | 20.63            | 20.93         | -89.69                | 551.07                 | 509.74                  | 41.32                     | 13.336            | 0                        |                              |  |
| 9,400.00                     | 7,277.00              | 9,435.09              | 7,277.00              | 21.19            | 21.49         | -89.69                | 551.07                 | 508.63                  | 42.44                     | 12.984            | 0                        |                              |  |
| 9,500.00                     | 7,277.00              | 9,535.09              | 7,277.00              | 21.76            | 22.05         | -89.69                | 551.07                 | 507.49                  | 43.58                     | 12.646            | 0                        |                              |  |
| 9,600.00                     | 7,277.00              | 9,635.09              | 7,277.00              | 22.34            | 22.62         | -89.69                | 551.07                 | 506.34                  | 44.73                     | 12.321            | 0                        |                              |  |
| 9,700.00                     | 7,277.00              | 9,735.09              | 7,277.00              | 22.92            | 23.19         | -89.69                | 551.07                 | 505.18                  | 45.89                     | 12.008            | 0                        |                              |  |
| 9,800.00                     | 7,277.00              | 9,835.09              | 7,277.00              | 23.51            | 23.78         | -89.69                | 551.07                 | 504.00                  | 47.07                     | 11.708            | 0                        |                              |  |
| 9,900.00                     | 7,277.00              | 9,935.09              | 7,277.00              | 24.10            | 24.37         | -89.69                | 551.07                 | 502.81                  | 48.26                     | 11.419            | 0                        |                              |  |
| 10,000.00                    | 7,277.00              | 10,035.09             | 7,277.00              | 24.71            | 24.96         | -89.69                | 551.07                 | 501.61                  | 49.46                     | 11.141            | 0                        |                              |  |
| 10,100.00                    | 7,277.00              | 10,135.09             | 7,277.00              | 25.31            | 25.56         | -89.69                | 551.08                 | 500.40                  | 50.67                     | 10.875            | 0                        |                              |  |
| 10,200.00                    | 7,277.00              | 10,235.09             | 7,277.00              | 25.92            | 26.17         | -89.69                | 551.08                 | 499.18                  | 51.90                     | 10.619            | 0                        |                              |  |
| 10,300.00                    | 7,277.00              | 10,335.09             | 7,277.00              | 26.54            | 26.78         | -89.69                | 551.08                 | 497.95                  | 53.13                     | 10.373            | 0                        |                              |  |
| 10,400.00                    | 7,277.00              | 10,435.09             | 7,277.00              | 27.16            | 27.40         | -89.69                | 551.08                 | 496.71                  | 54.37                     | 10.136            | 0                        |                              |  |
| 10,500.00                    | 7,277.00              | 10,535.09             | 7,277.00              | 27.78            | 28.02         | -89.69                | 551.08                 | 495.47                  | 55.61                     | 9.909             | 0                        |                              |  |
| 10,600.00                    | 7,277.00              | 10,635.09             | 7,277.00              | 28.41            | 28.64         | -89.69                | 551.08                 | 494.21                  | 56.87                     | 9.690             | 0                        |                              |  |
| 10,700.00                    | 7,277.00              | 10,735.09             | 7,277.00              | 29.04            | 29.27         | -89.69                | 551.09                 | 492.95                  | 58.13                     | 9.480             | 0                        |                              |  |
| 10,800.00                    | 7,277.00              | 10,835.09             | 7,277.00              | 29.68            | 29.90         | -89.69                | 551.09                 | 491.69                  | 59.40                     | 9.277             | 0                        |                              |  |
| 10,900.00                    | 7,277.00              | 10,935.09             | 7,277.00              | 30.32            | 30.53         | -89.69                | 551.09                 | 490.41                  | 60.68                     | 9.083             | 0                        |                              |  |
| 11,000.00                    | 7,277.00              | 11,035.08             | 7,277.00              | 30.96            | 31.17         | -89.69                | 551.09                 | 489.14                  | 61.96                     | 8.895             | 0                        |                              |  |
| 11,100.00                    | 7,277.00              | 11,135.08             | 7,277.00              | 31.60            | 31.81         | -89.69                | 551.09                 | 487.85                  | 63.24                     | 8.714             | 0                        |                              |  |
| 11,200.00                    | 7,277.00              | 11,235.08             | 7,277.00              | 32.25            | 32.45         | -89.69                | 551.10                 | 486.56                  | 64.53                     | 8.540             | 0                        |                              |  |
| 11,300.00                    | 7,277.00              | 11,335.08             | 7,277.00              | 32.89            | 33.09         | -89.69                | 551.10                 | 485.27                  | 65.83                     | 8.372             | 0                        |                              |  |
| 11,400.00                    | 7,277.00              | 11,435.08             | 7,277.00              | 33.54            | 33.74         | -89.69                | 551.10                 | 483.97                  | 67.13                     | 8.210             | 0                        |                              |  |
| 11,500.00                    | 7,277.00              | 11,535.08             | 7,277.00              | 34.20            | 34.39         | -89.69                | 551.10                 | 482.67                  | 68.43                     | 8.053             | 0                        |                              |  |
| 11,600.00                    | 7,277.00              | 11,635.08             | 7,277.00              | 34.85            | 35.04         | -89.69                | 551.11                 | 481.36                  | 69.74                     | 7.902             | 0                        |                              |  |
| 11,700.00                    | 7,277.00              | 11,735.08             | 7,277.00              | 35.51            | 35.69         | -89.69                | 551.11                 | 480.05                  | 71.05                     | 7.756             | 0                        |                              |  |
| 11,800.00                    | 7,277.00              | 11,835.08             | 7,277.00              | 36.16            | 36.35         | -89.69                | 551.11                 | 478.74                  | 72.37                     | 7.615             | 0                        |                              |  |
| 11,900.00                    | 7,277.00              | 11,935.08             | 7,277.00              | 36.82            | 37.01         | -89.69                | 551.11                 | 477.43                  | 73.69                     | 7.479             | 0                        |                              |  |
| 12,000.00                    | 7,277.00              | 12,035.08             | 7,277.00              | 37.49            | 37.66         | -89.69                | 551.12                 | 476.11                  | 75.01                     | 7.347             | 0                        |                              |  |
| 12,100.00                    | 7,277.00              | 12,135.08             | 7,277.00              | 38.15            | 38.32         | -89.69                | 551.12                 | 474.78                  | 76.34                     | 7.220             | 0                        |                              |  |
| 12,200.00                    | 7,277.00              | 12,235.08             | 7,277.00              | 38.81            | 38.99         | -89.69                | 551.12                 | 473.46                  | 77.66                     | 7.096             | 0                        |                              |  |
| 12,300.00                    | 7,277.00              | 12,335.08             | 7,277.00              | 39.48            | 39.65         | -89.69                | 551.13                 | 472.13                  | 79.00                     | 6.977             | 0                        |                              |  |
| 12,400.00                    | 7,277.00              | 12,435.08             | 7,277.00              | 40.15            | 40.31         | -89.69                | 551.13                 | 470.80                  | 80.33                     | 6.861             | 0                        |                              |  |
| 12,500.00                    | 7,277.00              | 12,535.08             | 7,277.00              | 40.81            | 40.98         | -89.69                | 551.13                 | 469.47                  | 81.67                     | 6.749             | 0                        |                              |  |
| 12,600.00                    | 7,277.00              | 12,635.08             | 7,277.00              | 41.48            | 41.65         | -89.69                | 551.13                 | 468.13                  | 83.00                     | 6.640             | 0                        |                              |  |
| 12,700.00                    | 7,277.00              | 12,735.08             | 7,277.00              | 42.15            | 42.31         | -89.69                | 551.14                 | 466.79                  | 84.34                     | 6.534             | 0                        |                              |  |
| 12,800.00                    | 7,277.00              | 12,835.08             | 7,277.00              | 42.82            | 42.98         | -89.69                | 551.14                 | 465.45                  | 85.69                     | 6.432             | 0                        |                              |  |
| 12,900.00                    | 7,277.00              | 12,935.08             | 7,277.00              | 43.50            | 43.65         | -89.69                | 551.14                 | 464.11                  | 87.03                     | 6.333             | 0                        |                              |  |
| 13,000.00                    | 7,277.00              | 13,035.08             | 7,277.00              | 44.17            | 44.33         | -89.69                | 551.15                 | 462.77                  | 88.38                     | 6.236             | 0                        |                              |  |
| 13,100.00                    | 7,277.00              | 13,135.08             | 7,277.00              | 44.85            | 45.00         | -89.69                | 551.15                 | 461.42                  | 89.73                     | 6.143             | 0                        |                              |  |
| 13,200.00                    | 7,277.00              | 13,235.08             | 7,277.00              | 45.52            | 45.67         | -89.69                | 551.15                 | 460.08                  | 91.08                     | 6.051             | 0                        |                              |  |
| 13,300.00                    | 7,277.00              | 13,335.08             | 7,277.00              | 46.20            | 46.35         | -89.69                | 551.16                 | 458.73                  | 92.43                     | 5.963             | 0                        |                              |  |
| 13,400.00                    | 7,277.00              | 13,435.08             | 7,277.00              | 46.87            | 47.02         | -89.69                | 551.16                 | 457.38                  | 93.78                     | 5.877             | 0                        |                              |  |
| 13,500.00                    | 7,277.00              | 13,535.08             | 7,277.00              | 47.55            | 47.70         | -89.69                | 551.16                 | 456.03                  | 95.14                     | 5.793             | 0                        |                              |  |
| 13,600.00                    | 7,277.00              | 13,635.08             | 7,277.00              | 48.23            | 48.37         | -89.69                | 551.17                 | 454.67                  | 96.50                     | 5.712             | 0                        |                              |  |
| 13,700.00                    | 7,277.00              | 13,735.08             | 7,277.00              | 48.91            | 49.05         | -89.69                | 551.17                 | 453.32                  | 97.85                     | 5.633             | 0                        |                              |  |
| 13,800.00                    | 7,277.00              | 13,835.08             | 7,277.00              | 49.59            | 49.73         | -89.69                | 551.18                 | 451.96                  | 99.21                     | 5.555             | 0                        |                              |  |
| 13,900.00                    | 7,277.00              | 13,935.08             | 7,277.00              | 50.27            | 50.41         | -89.69                | 551.18                 | 450.61                  | 100.57                    | 5.480             | 0                        |                              |  |
| 14,000.00                    | 7,277.00              | 14,035.07             | 7,277.00              | 50.95            | 51.09         | -89.69                | 551.18                 | 449.25                  | 101.94                    | 5.407             | 0                        |                              |  |
| 14,100.00                    | 7,277.00              | 14,135.07             | 7,277.00              | 51.63            | 51.77         | -89.69                | 551.19                 | 447.89                  | 103.30                    | 5.336             | 0                        |                              |  |
| 14,200.00                    | 7,277.00              | 14,235.07             | 7,277.00              | 52.31            | 52.45         | -89.69                | 551.19                 | 446.53                  | 104.66                    | 5.266             | 0                        |                              |  |
| 14,300.00                    | 7,277.00              | 14,335.07             | 7,277.00              | 53.00            | 53.13         | -89.69                | 551.20                 | 445.17                  | 106.03                    | 5.199             | 0                        |                              |  |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #1 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,400.00  | 7,277.00              | 14,435.07             | 7,277.00              | 53.68            | 53.81         | -89.69                | 551.20                 | 443.80                  | 107.40                    | 5.132             | 0                        |                          |                           |           |
| 14,500.00  | 7,277.00              | 14,535.07             | 7,277.00              | 54.36            | 54.49         | -89.69                | 551.20                 | 442.44                  | 108.76                    | 5.068             | 0                        |                          |                           |           |
| 14,600.00  | 7,277.00              | 14,635.07             | 7,277.00              | 55.05            | 55.18         | -89.69                | 551.21                 | 441.08                  | 110.13                    | 5.005             | 0                        |                          |                           |           |
| 14,700.00  | 7,277.00              | 14,735.07             | 7,277.00              | 55.73            | 55.86         | -89.69                | 551.21                 | 439.71                  | 111.50                    | 4.944             | 0                        |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,835.07             | 7,277.00              | 56.42            | 56.55         | -89.69                | 551.22                 | 438.35                  | 112.87                    | 4.884             | 0                        |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,935.07             | 7,277.00              | 57.11            | 57.23         | -89.69                | 551.22                 | 436.98                  | 114.24                    | 4.825             | 0                        |                          |                           |           |
| 15,000.00  | 7,277.00              | 15,035.07             | 7,277.00              | 57.79            | 57.91         | -89.69                | 551.23                 | 435.61                  | 115.62                    | 4.768             | 0                        |                          |                           |           |
| 15,025.98  | 7,277.00              | 15,061.06             | 7,277.00              | 57.97            | 58.09         | -89.69                | 551.23                 | 435.26                  | 115.97                    | 4.753             | 0                        |                          |                           |           |
| 15,048.84  | 7,277.00              | 15,083.00             | 7,277.00              | 58.13            | 58.24         | -89.69                | 551.23                 | 434.95                  | 116.28                    | 4.741             | 0                        |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error:       | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |           |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.72               | 168.15                 |                         |                           |                   | 0                        |                          |           |
| 100.00                       | 100.00                | 92.00                 | 92.00                 | 0.15             | 0.13          | -179.72               | 167.96                 | 167.68                  | 0.28                      | 596.682           | 0                        |                          |           |
| 200.00                       | 200.00                | 192.00                | 192.00                | 0.32             | 0.31          | -179.72               | 167.96                 | 167.33                  | 0.63                      | 267.314           | 0                        |                          |           |
| 300.00                       | 300.00                | 292.00                | 292.00                | 0.50             | 0.48          | -179.72               | 167.96                 | 166.98                  | 0.98                      | 171.845           | 0                        |                          |           |
| 400.00                       | 400.00                | 392.00                | 392.00                | 0.67             | 0.66          | -179.72               | 167.96                 | 166.63                  | 1.33                      | 126.622           | 0                        |                          |           |
| 500.00                       | 500.00                | 492.00                | 492.00                | 0.84             | 0.83          | -179.72               | 167.96                 | 166.28                  | 1.68                      | 100.243           | 0                        |                          |           |
| 600.00                       | 600.00                | 592.00                | 592.00                | 1.02             | 1.01          | -179.72               | 167.96                 | 165.93                  | 2.02                      | 82.959            | 0                        |                          |           |
| 700.00                       | 700.00                | 692.00                | 692.00                | 1.19             | 1.18          | -179.72               | 167.96                 | 165.58                  | 2.37                      | 70.760            | 0                        |                          | CC, ES    |
| 800.00                       | 800.00                | 787.54                | 787.53                | 1.37             | 1.35          | -179.49               | 169.17                 | 166.46                  | 2.72                      | 62.307            | 0                        |                          |           |
| 900.00                       | 900.00                | 882.51                | 882.38                | 1.54             | 1.51          | -178.75               | 173.27                 | 170.21                  | 3.06                      | 56.690            | 0                        |                          |           |
| 1,000.00                     | 999.98                | 977.08                | 976.64                | 1.72             | 1.68          | -110.00               | 180.89                 | 177.49                  | 3.40                      | 53.268            | 0                        |                          |           |
| 1,100.00                     | 1,099.84              | 1,071.01              | 1,069.97              | 1.89             | 1.85          | -109.64               | 192.58                 | 188.85                  | 3.74                      | 51.552            | 0                        |                          |           |
| 1,200.00                     | 1,199.45              | 1,164.05              | 1,162.02              | 2.07             | 2.02          | -109.68               | 208.29                 | 204.21                  | 4.08                      | 51.096            | 0                        |                          |           |
| 1,239.63                     | 1,238.83              | 1,200.00              | 1,197.47              | 2.14             | 2.08          | -109.78               | 215.61                 | 211.40                  | 4.21                      | 51.204            | 0                        |                          |           |
| 1,300.00                     | 1,298.78              | 1,256.00              | 1,252.52              | 2.25             | 2.19          | -110.10               | 227.74                 | 223.32                  | 4.42                      | 51.534            | 0                        |                          |           |
| 1,400.00                     | 1,398.08              | 1,348.59              | 1,343.09              | 2.43             | 2.37          | -110.30               | 249.93                 | 245.17                  | 4.77                      | 52.450            | 0                        |                          |           |
| 1,500.00                     | 1,497.38              | 1,445.92              | 1,438.11              | 2.61             | 2.56          | -110.39               | 272.89                 | 267.77                  | 5.12                      | 53.289            | 0                        |                          |           |
| 1,600.00                     | 1,596.68              | 1,543.25              | 1,533.14              | 2.79             | 2.75          | -110.47               | 295.85                 | 290.37                  | 5.48                      | 54.005            | 0                        |                          |           |
| 1,700.00                     | 1,695.97              | 1,640.58              | 1,628.17              | 2.97             | 2.94          | -110.53               | 318.81                 | 312.97                  | 5.84                      | 54.624            | 0                        |                          |           |
| 1,800.00                     | 1,795.27              | 1,737.91              | 1,723.19              | 3.15             | 3.13          | -110.58               | 341.77                 | 335.57                  | 6.20                      | 55.163            | 0                        |                          |           |
| 1,900.00                     | 1,894.57              | 1,835.24              | 1,818.22              | 3.33             | 3.33          | -110.63               | 364.72                 | 358.17                  | 6.56                      | 55.637            | 0                        |                          |           |
| 2,000.00                     | 1,993.87              | 1,932.56              | 1,913.24              | 3.52             | 3.52          | -110.67               | 387.68                 | 380.77                  | 6.92                      | 56.056            | 0                        |                          |           |
| 2,100.00                     | 2,093.17              | 2,029.89              | 2,008.27              | 3.70             | 3.72          | -110.71               | 410.64                 | 403.36                  | 7.28                      | 56.430            | 0                        |                          |           |
| 2,200.00                     | 2,192.46              | 2,127.22              | 2,103.29              | 3.88             | 3.92          | -110.75               | 433.60                 | 425.96                  | 7.64                      | 56.764            | 0                        |                          |           |
| 2,300.00                     | 2,291.76              | 2,224.55              | 2,198.32              | 4.06             | 4.11          | -110.78               | 456.56                 | 448.56                  | 8.00                      | 57.066            | 0                        |                          |           |
| 2,400.00                     | 2,391.06              | 2,321.88              | 2,293.34              | 4.25             | 4.31          | -110.80               | 479.52                 | 471.16                  | 8.36                      | 57.339            | 0                        |                          |           |
| 2,500.00                     | 2,490.36              | 2,419.21              | 2,388.37              | 4.43             | 4.51          | -110.83               | 502.48                 | 493.75                  | 8.73                      | 57.587            | 0                        |                          |           |
| 2,600.00                     | 2,589.66              | 2,516.54              | 2,483.39              | 4.62             | 4.71          | -110.85               | 525.44                 | 516.35                  | 9.09                      | 57.813            | 0                        |                          |           |
| 2,700.00                     | 2,688.95              | 2,613.86              | 2,578.42              | 4.80             | 4.91          | -110.87               | 548.40                 | 538.95                  | 9.45                      | 58.021            | 0                        |                          |           |
| 2,800.00                     | 2,788.25              | 2,711.19              | 2,673.44              | 4.98             | 5.11          | -110.89               | 571.36                 | 561.54                  | 9.82                      | 58.212            | 0                        |                          |           |
| 2,900.00                     | 2,887.55              | 2,808.52              | 2,768.47              | 5.17             | 5.31          | -110.91               | 594.32                 | 584.14                  | 10.18                     | 58.389            | 0                        |                          |           |
| 3,000.00                     | 2,986.85              | 2,905.85              | 2,863.50              | 5.35             | 5.51          | -110.92               | 617.28                 | 606.73                  | 10.54                     | 58.552            | 0                        |                          |           |
| 3,100.00                     | 3,086.15              | 3,003.18              | 2,958.52              | 5.54             | 5.71          | -110.94               | 640.24                 | 629.33                  | 10.91                     | 58.704            | 0                        |                          |           |
| 3,200.00                     | 3,185.44              | 3,100.51              | 3,053.55              | 5.72             | 5.91          | -110.95               | 663.20                 | 651.93                  | 11.27                     | 58.845            | 0                        |                          |           |
| 3,300.00                     | 3,284.74              | 3,197.83              | 3,148.57              | 5.90             | 6.11          | -110.97               | 686.16                 | 674.52                  | 11.63                     | 58.976            | 0                        |                          |           |
| 3,400.00                     | 3,384.04              | 3,295.16              | 3,243.60              | 6.09             | 6.31          | -110.98               | 709.12                 | 697.12                  | 12.00                     | 59.099            | 0                        |                          |           |
| 3,500.00                     | 3,483.34              | 3,392.49              | 3,338.62              | 6.27             | 6.51          | -110.99               | 732.08                 | 719.71                  | 12.36                     | 59.214            | 0                        |                          |           |
| 3,600.00                     | 3,582.64              | 3,489.82              | 3,433.65              | 6.46             | 6.71          | -111.00               | 755.04                 | 742.31                  | 12.73                     | 59.323            | 0                        |                          |           |
| 3,700.00                     | 3,681.94              | 3,587.15              | 3,528.67              | 6.64             | 6.91          | -111.01               | 778.00                 | 764.90                  | 13.09                     | 59.424            | 0                        |                          |           |
| 3,800.00                     | 3,781.23              | 3,684.48              | 3,623.70              | 6.83             | 7.11          | -111.02               | 800.96                 | 787.50                  | 13.46                     | 59.520            | 0                        |                          |           |
| 3,900.00                     | 3,880.53              | 3,781.80              | 3,718.72              | 7.01             | 7.31          | -111.03               | 823.92                 | 810.09                  | 13.82                     | 59.611            | 0                        |                          |           |
| 4,000.00                     | 3,979.83              | 3,879.13              | 3,813.75              | 7.20             | 7.51          | -111.04               | 846.88                 | 832.69                  | 14.19                     | 59.696            | 0                        |                          |           |
| 4,100.00                     | 4,079.13              | 3,976.46              | 3,908.77              | 7.38             | 7.71          | -111.05               | 869.84                 | 855.28                  | 14.55                     | 59.777            | 0                        |                          |           |
| 4,200.00                     | 4,178.43              | 4,073.79              | 4,003.80              | 7.56             | 7.92          | -111.05               | 892.80                 | 877.88                  | 14.92                     | 59.854            | 0                        |                          |           |
| 4,300.00                     | 4,277.72              | 4,171.12              | 4,098.82              | 7.75             | 8.12          | -111.06               | 915.76                 | 900.47                  | 15.28                     | 59.927            | 0                        |                          |           |
| 4,400.00                     | 4,377.02              | 4,268.45              | 4,193.85              | 7.93             | 8.32          | -111.07               | 938.72                 | 923.07                  | 15.65                     | 59.996            | 0                        |                          |           |
| 4,500.00                     | 4,476.32              | 4,365.78              | 4,288.88              | 8.12             | 8.52          | -111.07               | 961.68                 | 945.66                  | 16.01                     | 60.062            | 0                        |                          |           |
| 4,600.00                     | 4,575.62              | 4,463.10              | 4,383.90              | 8.30             | 8.72          | -111.08               | 984.64                 | 968.26                  | 16.38                     | 60.125            | 0                        |                          |           |
| 4,700.00                     | 4,674.92              | 4,560.43              | 4,478.93              | 8.49             | 8.92          | -111.09               | 1,007.60               | 990.85                  | 16.74                     | 60.185            | 0                        |                          |           |
| 4,800.00                     | 4,774.21              | 4,657.76              | 4,573.95              | 8.67             | 9.13          | -111.09               | 1,030.56               | 1,013.45                | 17.11                     | 60.243            | 0                        |                          |           |
| 4,900.00                     | 4,873.51              | 4,755.09              | 4,668.98              | 8.86             | 9.33          | -111.10               | 1,053.52               | 1,036.04                | 17.47                     | 60.297            | 0                        |                          |           |
| 5,000.00                     | 4,972.81              | 4,852.42              | 4,764.00              | 9.04             | 9.53          | -111.10               | 1,076.48               | 1,058.64                | 17.84                     | 60.350            | 0                        |                          |           |
| 5,100.00                     | 5,072.11              | 4,949.75              | 4,859.03              | 9.23             | 9.73          | -111.11               | 1,099.44               | 1,081.23                | 18.20                     | 60.400            | 0                        |                          |           |
| 5,200.00                     | 5,171.41              | 5,047.07              | 4,954.05              | 9.41             | 9.93          | -111.11               | 1,122.40               | 1,103.83                | 18.57                     | 60.448            | 0                        |                          |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                        | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                        | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risk Separation Factor |                              |  |
| 5,300.00                     | 5,270.70              | 5,144.40              | 5,049.08              | 9.60             | 10.13         | -111.12               | 1,145.36               | 1,126.42                | 18.93                     | 60.494            | 0                      |                              |  |
| 5,400.00                     | 5,370.00              | 5,241.73              | 5,144.10              | 9.78             | 10.34         | -111.12               | 1,168.32               | 1,149.02                | 19.30                     | 60.539            | 0                      |                              |  |
| 5,500.00                     | 5,469.30              | 5,339.06              | 5,239.13              | 9.97             | 10.54         | -111.13               | 1,191.28               | 1,171.61                | 19.66                     | 60.581            | 0                      |                              |  |
| 5,600.00                     | 5,568.60              | 5,436.39              | 5,334.15              | 10.15            | 10.74         | -111.13               | 1,214.24               | 1,194.21                | 20.03                     | 60.622            | 0                      |                              |  |
| 5,700.00                     | 5,667.90              | 5,533.72              | 5,429.18              | 10.34            | 10.94         | -111.13               | 1,237.20               | 1,216.80                | 20.39                     | 60.662            | 0                      |                              |  |
| 5,800.00                     | 5,767.20              | 5,631.05              | 5,524.21              | 10.52            | 11.15         | -111.14               | 1,260.16               | 1,239.40                | 20.76                     | 60.700            | 0                      |                              |  |
| 5,900.00                     | 5,866.49              | 5,728.37              | 5,619.23              | 10.71            | 11.35         | -111.14               | 1,283.12               | 1,261.99                | 21.13                     | 60.736            | 0                      |                              |  |
| 6,000.00                     | 5,965.79              | 5,825.70              | 5,714.26              | 10.89            | 11.55         | -111.15               | 1,306.08               | 1,284.59                | 21.49                     | 60.772            | 0                      |                              |  |
| 6,100.00                     | 6,065.09              | 5,923.03              | 5,809.28              | 11.08            | 11.75         | -111.15               | 1,329.04               | 1,307.18                | 21.86                     | 60.806            | 0                      |                              |  |
| 6,200.00                     | 6,164.39              | 6,020.36              | 5,904.31              | 11.26            | 11.95         | -111.15               | 1,352.00               | 1,329.78                | 22.22                     | 60.839            | 0                      |                              |  |
| 6,237.42                     | 6,201.55              | 6,070.28              | 5,953.09              | 11.33            | 12.06         | -111.16               | 1,360.49               | 1,338.11                | 22.38                     | 60.781            | 0                      |                              |  |
| 6,300.00                     | 6,263.76              | 6,174.42              | 6,055.38              | 11.45            | 12.26         | -111.42               | 1,373.06               | 1,350.36                | 22.70                     | 60.493            | 0                      |                              |  |
| 6,400.00                     | 6,363.44              | 6,343.55              | 6,222.82              | 11.62            | 12.57         | -111.72               | 1,388.07               | 1,364.88                | 23.19                     | 59.852            | 0                      |                              |  |
| 6,500.00                     | 6,463.34              | 6,515.02              | 6,393.70              | 11.79            | 12.86         | -111.88               | 1,396.71               | 1,373.03                | 23.67                     | 58.999            | 0                      |                              |  |
| 6,577.05                     | 6,540.38              | 6,647.95              | 6,526.56              | 11.92            | 13.07         | -179.83               | 1,398.96               | 1,374.60                | 24.35                     | 57.447            | 0                      |                              |  |
| 6,600.00                     | 6,563.33              | 6,676.72              | 6,555.33              | 11.96            | 13.12         | -179.83               | 1,398.97               | 1,374.53                | 24.44                     | 57.247            | 0                      |                              |  |
| 6,677.05                     | 6,640.38              | 6,753.77              | 6,632.38              | 12.09            | 13.23         | -179.83               | 1,398.97               | 1,374.28                | 24.69                     | 56.656            | 0                      |                              |  |
| 6,700.00                     | 6,663.33              | 6,776.81              | 6,655.43              | 12.13            | 13.27         | 90.18                 | 1,398.97               | 1,374.52                | 24.45                     | 57.207            | 0                      |                              |  |
| 6,750.00                     | 6,713.17              | 6,827.18              | 6,705.68              | 12.20            | 13.34         | 90.20                 | 1,398.97               | 1,374.37                | 24.61                     | 56.850            | 0                      |                              |  |
| 6,800.00                     | 6,762.57              | 6,877.59              | 6,755.56              | 12.28            | 13.41         | 90.23                 | 1,398.98               | 1,374.22                | 24.75                     | 56.518            | 0                      |                              |  |
| 6,850.00                     | 6,811.21              | 6,928.04              | 6,804.77              | 12.34            | 13.47         | 90.25                 | 1,398.98               | 1,374.09                | 24.89                     | 56.210            | 0                      |                              |  |
| 6,900.00                     | 6,858.80              | 6,978.54              | 6,852.99              | 12.41            | 13.53         | 90.27                 | 1,398.98               | 1,373.97                | 25.02                     | 55.923            | 0                      |                              |  |
| 6,950.00                     | 6,905.04              | 7,029.07              | 6,899.90              | 12.47            | 13.59         | 90.29                 | 1,398.98               | 1,373.85                | 25.14                     | 55.653            | 0                      |                              |  |
| 7,000.00                     | 6,949.66              | 7,079.65              | 6,945.22              | 12.52            | 13.64         | 90.30                 | 1,398.99               | 1,373.73                | 25.25                     | 55.398            | 0                      |                              |  |
| 7,050.00                     | 6,992.36              | 7,130.25              | 6,988.63              | 12.58            | 13.69         | 90.32                 | 1,398.99               | 1,373.62                | 25.37                     | 55.153            | 0                      |                              |  |
| 7,100.00                     | 7,032.90              | 7,180.89              | 7,029.87              | 12.63            | 13.75         | 90.33                 | 1,398.99               | 1,373.51                | 25.48                     | 54.914            | 0                      |                              |  |
| 7,150.00                     | 7,071.01              | 7,231.54              | 7,068.67              | 12.69            | 13.80         | 90.34                 | 1,398.99               | 1,373.40                | 25.59                     | 54.675            | 0                      |                              |  |
| 7,200.00                     | 7,106.47              | 7,282.22              | 7,104.77              | 12.74            | 13.85         | 90.35                 | 1,398.99               | 1,373.29                | 25.70                     | 54.433            | 0                      |                              |  |
| 7,250.00                     | 7,139.06              | 7,332.92              | 7,137.93              | 12.80            | 13.90         | 90.36                 | 1,398.99               | 1,373.17                | 25.82                     | 54.181            | 0                      |                              |  |
| 7,300.00                     | 7,168.57              | 7,383.62              | 7,167.96              | 12.86            | 13.96         | 90.37                 | 1,398.99               | 1,373.05                | 25.95                     | 53.915            | 0                      |                              |  |
| 7,350.00                     | 7,194.82              | 7,434.33              | 7,194.64              | 12.93            | 14.02         | 90.37                 | 1,399.00               | 1,372.91                | 26.09                     | 53.630            | 0                      |                              |  |
| 7,400.00                     | 7,217.66              | 7,485.05              | 7,217.80              | 13.00            | 14.08         | 90.37                 | 1,399.00               | 1,372.76                | 26.24                     | 53.322            | 0                      |                              |  |
| 7,450.00                     | 7,236.94              | 7,535.76              | 7,237.30              | 13.07            | 14.15         | 90.37                 | 1,398.99               | 1,372.59                | 26.40                     | 52.986            | 0                      |                              |  |
| 7,500.00                     | 7,252.54              | 7,586.47              | 7,253.02              | 13.15            | 14.23         | 90.36                 | 1,398.99               | 1,372.41                | 26.59                     | 52.618            | 0                      |                              |  |
| 7,550.00                     | 7,264.36              | 7,637.16              | 7,264.84              | 13.25            | 14.31         | 90.35                 | 1,398.99               | 1,372.20                | 26.79                     | 52.223            | 0                      |                              |  |
| 7,600.00                     | 7,272.34              | 7,687.84              | 7,272.71              | 13.36            | 14.40         | 90.35                 | 1,398.99               | 1,371.98                | 27.01                     | 51.800            | 0                      |                              |  |
| 7,650.00                     | 7,276.43              | 7,738.50              | 7,276.57              | 13.49            | 14.50         | 90.33                 | 1,398.99               | 1,371.75                | 27.24                     | 51.351            | 0                      |                              |  |
| 7,677.05                     | 7,277.00              | 7,765.85              | 7,277.00              | 13.55            | 14.56         | 90.33                 | 1,398.99               | 1,371.61                | 27.38                     | 51.100            | 0                      |                              |  |
| 7,700.00                     | 7,277.00              | 7,788.80              | 7,277.00              | 13.62            | 14.61         | 90.33                 | 1,398.99               | 1,371.49                | 27.49                     | 50.882            | 0                      |                              |  |
| 7,800.00                     | 7,277.00              | 7,888.80              | 7,277.00              | 13.90            | 14.84         | 90.33                 | 1,398.99               | 1,370.95                | 28.04                     | 49.887            | 0                      |                              |  |
| 7,900.00                     | 7,277.00              | 7,988.80              | 7,277.00              | 14.20            | 15.12         | 90.33                 | 1,398.99               | 1,370.34                | 28.65                     | 48.832            | 0                      |                              |  |
| 8,000.00                     | 7,277.00              | 8,088.80              | 7,277.00              | 14.54            | 15.42         | 90.33                 | 1,398.99               | 1,369.68                | 29.31                     | 47.731            | 0                      |                              |  |
| 8,100.00                     | 7,277.00              | 8,188.80              | 7,277.00              | 14.90            | 15.76         | 90.33                 | 1,398.99               | 1,368.97                | 30.02                     | 46.598            | 0                      |                              |  |
| 8,200.00                     | 7,277.00              | 8,288.80              | 7,277.00              | 15.28            | 16.12         | 90.33                 | 1,398.99               | 1,368.21                | 30.78                     | 45.447            | 0                      |                              |  |
| 8,300.00                     | 7,277.00              | 8,388.80              | 7,277.00              | 15.69            | 16.51         | 90.33                 | 1,398.99               | 1,367.40                | 31.59                     | 44.289            | 0                      |                              |  |
| 8,400.00                     | 7,277.00              | 8,488.80              | 7,277.00              | 16.11            | 16.91         | 90.33                 | 1,398.99               | 1,366.56                | 32.43                     | 43.134            | 0                      |                              |  |
| 8,500.00                     | 7,277.00              | 8,588.80              | 7,277.00              | 16.56            | 17.34         | 90.33                 | 1,398.99               | 1,365.67                | 33.32                     | 41.990            | 0                      |                              |  |
| 8,600.00                     | 7,277.00              | 8,688.80              | 7,277.00              | 17.02            | 17.78         | 90.33                 | 1,398.99               | 1,364.75                | 34.24                     | 40.863            | 0                      |                              |  |
| 8,700.00                     | 7,277.00              | 8,788.80              | 7,277.00              | 17.49            | 18.25         | 90.33                 | 1,398.99               | 1,363.80                | 35.19                     | 39.758            | 0                      |                              |  |
| 8,800.00                     | 7,277.00              | 8,888.80              | 7,277.00              | 17.99            | 18.72         | 90.33                 | 1,398.99               | 1,362.82                | 36.17                     | 38.680            | 0                      |                              |  |
| 8,900.00                     | 7,277.00              | 8,988.80              | 7,277.00              | 18.49            | 19.21         | 90.33                 | 1,398.99               | 1,361.81                | 37.18                     | 37.631            | 0                      |                              |  |
| 9,000.00                     | 7,277.00              | 9,088.80              | 7,277.00              | 19.01            | 19.71         | 90.33                 | 1,398.99               | 1,360.78                | 38.21                     | 36.613            | 0                      |                              |  |
| 9,100.00                     | 7,277.00              | 9,188.80              | 7,277.00              | 19.54            | 20.23         | 90.33                 | 1,398.99               | 1,359.72                | 39.27                     | 35.628            | 0                      |                              |  |
| 9,200.00                     | 7,277.00              | 9,288.80              | 7,277.00              | 20.08            | 20.75         | 90.33                 | 1,398.99               | 1,358.64                | 40.35                     | 34.676            | 0                      |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 9,300.00                     | 7,277.00              | 9,388.80              | 7,277.00              | 20.63            | 21.29         | 90.33                 | 1,398.99               | 1,357.55                | 41.44                     | 33.757            | 0                        |                              |  |
| 9,400.00                     | 7,277.00              | 9,488.80              | 7,277.00              | 21.19            | 21.84         | 90.33                 | 1,398.99               | 1,356.43                | 42.56                     | 32.872            | 0                        |                              |  |
| 9,500.00                     | 7,277.00              | 9,588.80              | 7,277.00              | 21.76            | 22.39         | 90.33                 | 1,398.99               | 1,355.30                | 43.69                     | 32.019            | 0                        |                              |  |
| 9,600.00                     | 7,277.00              | 9,688.80              | 7,277.00              | 22.34            | 22.95         | 90.33                 | 1,398.99               | 1,354.15                | 44.84                     | 31.199            | 0                        |                              |  |
| 9,700.00                     | 7,277.00              | 9,788.80              | 7,277.00              | 22.92            | 23.52         | 90.33                 | 1,398.99               | 1,352.99                | 46.00                     | 30.411            | 0                        |                              |  |
| 9,800.00                     | 7,277.00              | 9,888.80              | 7,277.00              | 23.51            | 24.10         | 90.33                 | 1,398.99               | 1,351.81                | 47.18                     | 29.653            | 0                        |                              |  |
| 9,900.00                     | 7,277.00              | 9,988.80              | 7,277.00              | 24.10            | 24.68         | 90.33                 | 1,398.99               | 1,350.62                | 48.37                     | 28.924            | 0                        |                              |  |
| 10,000.00                    | 7,277.00              | 10,088.80             | 7,277.00              | 24.71            | 25.27         | 90.33                 | 1,398.99               | 1,349.42                | 49.57                     | 28.224            | 0                        |                              |  |
| 10,100.00                    | 7,277.00              | 10,188.80             | 7,277.00              | 25.31            | 25.87         | 90.33                 | 1,398.99               | 1,348.21                | 50.78                     | 27.551            | 0                        |                              |  |
| 10,200.00                    | 7,277.00              | 10,288.80             | 7,277.00              | 25.92            | 26.47         | 90.33                 | 1,398.99               | 1,346.99                | 52.00                     | 26.904            | 0                        |                              |  |
| 10,300.00                    | 7,277.00              | 10,388.80             | 7,277.00              | 26.54            | 27.07         | 90.33                 | 1,398.99               | 1,345.76                | 53.23                     | 26.283            | 0                        |                              |  |
| 10,400.00                    | 7,277.00              | 10,488.80             | 7,277.00              | 27.16            | 27.68         | 90.33                 | 1,398.99               | 1,344.52                | 54.47                     | 25.685            | 0                        |                              |  |
| 10,500.00                    | 7,277.00              | 10,588.80             | 7,277.00              | 27.78            | 28.30         | 90.33                 | 1,398.99               | 1,343.28                | 55.71                     | 25.111            | 0                        |                              |  |
| 10,600.00                    | 7,277.00              | 10,688.80             | 7,277.00              | 28.41            | 28.92         | 90.33                 | 1,398.99               | 1,342.02                | 56.97                     | 24.558            | 0                        |                              |  |
| 10,700.00                    | 7,277.00              | 10,788.80             | 7,277.00              | 29.04            | 29.54         | 90.33                 | 1,398.99               | 1,340.76                | 58.23                     | 24.026            | 0                        |                              |  |
| 10,800.00                    | 7,277.00              | 10,888.80             | 7,277.00              | 29.68            | 30.16         | 90.33                 | 1,398.99               | 1,339.49                | 59.49                     | 23.515            | 0                        |                              |  |
| 10,900.00                    | 7,277.00              | 10,988.80             | 7,277.00              | 30.32            | 30.79         | 90.33                 | 1,398.99               | 1,338.22                | 60.77                     | 23.022            | 0                        |                              |  |
| 11,000.00                    | 7,277.00              | 11,088.80             | 7,277.00              | 30.96            | 31.43         | 90.33                 | 1,398.99               | 1,336.94                | 62.05                     | 22.547            | 0                        |                              |  |
| 11,100.00                    | 7,277.00              | 11,188.80             | 7,277.00              | 31.60            | 32.06         | 90.33                 | 1,398.99               | 1,335.66                | 63.33                     | 22.090            | 0                        |                              |  |
| 11,200.00                    | 7,277.00              | 11,288.80             | 7,277.00              | 32.25            | 32.70         | 90.33                 | 1,398.99               | 1,334.37                | 64.62                     | 21.649            | 0                        |                              |  |
| 11,300.00                    | 7,277.00              | 11,388.80             | 7,277.00              | 32.89            | 33.34         | 90.33                 | 1,398.99               | 1,333.07                | 65.92                     | 21.224            | 0                        |                              |  |
| 11,400.00                    | 7,277.00              | 11,488.80             | 7,277.00              | 33.54            | 33.98         | 90.33                 | 1,398.99               | 1,331.77                | 67.22                     | 20.813            | 0                        |                              |  |
| 11,500.00                    | 7,277.00              | 11,588.80             | 7,277.00              | 34.20            | 34.63         | 90.33                 | 1,398.99               | 1,330.47                | 68.52                     | 20.418            | 0                        |                              |  |
| 11,600.00                    | 7,277.00              | 11,688.80             | 7,277.00              | 34.85            | 35.28         | 90.33                 | 1,398.99               | 1,329.16                | 69.83                     | 20.035            | 0                        |                              |  |
| 11,700.00                    | 7,277.00              | 11,788.80             | 7,277.00              | 35.51            | 35.93         | 90.33                 | 1,398.99               | 1,327.85                | 71.14                     | 19.666            | 0                        |                              |  |
| 11,800.00                    | 7,277.00              | 11,888.80             | 7,277.00              | 36.16            | 36.58         | 90.33                 | 1,398.99               | 1,326.54                | 72.45                     | 19.309            | 0                        |                              |  |
| 11,900.00                    | 7,277.00              | 11,988.80             | 7,277.00              | 36.82            | 37.23         | 90.33                 | 1,398.99               | 1,325.22                | 73.77                     | 18.964            | 0                        |                              |  |
| 12,000.00                    | 7,277.00              | 12,088.80             | 7,277.00              | 37.49            | 37.89         | 90.33                 | 1,398.99               | 1,323.90                | 75.09                     | 18.630            | 0                        |                              |  |
| 12,100.00                    | 7,277.00              | 12,188.80             | 7,277.00              | 38.15            | 38.54         | 90.33                 | 1,398.99               | 1,322.57                | 76.42                     | 18.307            | 0                        |                              |  |
| 12,200.00                    | 7,277.00              | 12,288.80             | 7,277.00              | 38.81            | 39.20         | 90.33                 | 1,398.99               | 1,321.25                | 77.74                     | 17.995            | 0                        |                              |  |
| 12,300.00                    | 7,277.00              | 12,388.80             | 7,277.00              | 39.48            | 39.86         | 90.33                 | 1,398.99               | 1,319.92                | 79.07                     | 17.692            | 0                        |                              |  |
| 12,400.00                    | 7,277.00              | 12,488.80             | 7,277.00              | 40.15            | 40.52         | 90.33                 | 1,398.99               | 1,318.58                | 80.41                     | 17.399            | 0                        |                              |  |
| 12,500.00                    | 7,277.00              | 12,588.80             | 7,277.00              | 40.81            | 41.19         | 90.33                 | 1,398.99               | 1,317.25                | 81.74                     | 17.115            | 0                        |                              |  |
| 12,600.00                    | 7,277.00              | 12,688.80             | 7,277.00              | 41.48            | 41.85         | 90.33                 | 1,398.99               | 1,315.91                | 83.08                     | 16.839            | 0                        |                              |  |
| 12,700.00                    | 7,277.00              | 12,788.80             | 7,277.00              | 42.15            | 42.52         | 90.33                 | 1,398.99               | 1,314.57                | 84.42                     | 16.572            | 0                        |                              |  |
| 12,800.00                    | 7,277.00              | 12,888.80             | 7,277.00              | 42.82            | 43.18         | 90.33                 | 1,398.99               | 1,313.23                | 85.76                     | 16.313            | 0                        |                              |  |
| 12,900.00                    | 7,277.00              | 12,988.80             | 7,277.00              | 43.50            | 43.85         | 90.33                 | 1,398.99               | 1,311.88                | 87.11                     | 16.061            | 0                        |                              |  |
| 13,000.00                    | 7,277.00              | 13,088.80             | 7,277.00              | 44.17            | 44.52         | 90.33                 | 1,398.99               | 1,310.54                | 88.45                     | 15.816            | 0                        |                              |  |
| 13,100.00                    | 7,277.00              | 13,188.80             | 7,277.00              | 44.85            | 45.19         | 90.33                 | 1,398.99               | 1,309.19                | 89.80                     | 15.579            | 0                        |                              |  |
| 13,200.00                    | 7,277.00              | 13,288.80             | 7,277.00              | 45.52            | 45.86         | 90.33                 | 1,398.99               | 1,307.84                | 91.15                     | 15.348            | 0                        |                              |  |
| 13,300.00                    | 7,277.00              | 13,388.80             | 7,277.00              | 46.20            | 46.53         | 90.33                 | 1,398.99               | 1,306.49                | 92.50                     | 15.124            | 0                        |                              |  |
| 13,400.00                    | 7,277.00              | 13,488.80             | 7,277.00              | 46.87            | 47.21         | 90.33                 | 1,398.99               | 1,305.14                | 93.85                     | 14.906            | 0                        |                              |  |
| 13,500.00                    | 7,277.00              | 13,588.80             | 7,277.00              | 47.55            | 47.88         | 90.33                 | 1,398.99               | 1,303.78                | 95.21                     | 14.694            | 0                        |                              |  |
| 13,600.00                    | 7,277.00              | 13,688.80             | 7,277.00              | 48.23            | 48.56         | 90.33                 | 1,398.99               | 1,302.42                | 96.56                     | 14.488            | 0                        |                              |  |
| 13,700.00                    | 7,277.00              | 13,788.80             | 7,277.00              | 48.91            | 49.23         | 90.33                 | 1,398.99               | 1,301.07                | 97.92                     | 14.287            | 0                        |                              |  |
| 13,800.00                    | 7,277.00              | 13,888.80             | 7,277.00              | 49.59            | 49.91         | 90.33                 | 1,398.99               | 1,299.71                | 99.28                     | 14.091            | 0                        |                              |  |
| 13,900.00                    | 7,277.00              | 13,988.80             | 7,277.00              | 50.27            | 50.59         | 90.33                 | 1,398.99               | 1,298.35                | 100.64                    | 13.901            | 0                        |                              |  |
| 14,000.00                    | 7,277.00              | 14,088.80             | 7,277.00              | 50.95            | 51.26         | 90.33                 | 1,398.99               | 1,296.99                | 102.00                    | 13.715            | 0                        |                              |  |
| 14,100.00                    | 7,277.00              | 14,188.80             | 7,277.00              | 51.63            | 51.94         | 90.33                 | 1,398.99               | 1,295.62                | 103.37                    | 13.534            | 0                        |                              |  |
| 14,200.00                    | 7,277.00              | 14,288.80             | 7,277.00              | 52.31            | 52.62         | 90.33                 | 1,398.99               | 1,294.26                | 104.73                    | 13.358            | 0                        |                              |  |
| 14,300.00                    | 7,277.00              | 14,388.80             | 7,277.00              | 53.00            | 53.30         | 90.33                 | 1,398.99               | 1,292.89                | 106.09                    | 13.186            | 0                        |                              |  |
| 14,400.00                    | 7,277.00              | 14,488.80             | 7,277.00              | 53.68            | 53.98         | 90.33                 | 1,398.99               | 1,291.53                | 107.46                    | 13.019            | 0                        |                              |  |
| 14,500.00                    | 7,277.00              | 14,588.80             | 7,277.00              | 54.36            | 54.66         | 90.33                 | 1,398.99               | 1,290.16                | 108.83                    | 12.855            | 0                        |                              |  |
| 14,600.00                    | 7,277.00              | 14,688.80             | 7,277.00              | 55.05            | 55.34         | 90.33                 | 1,398.99               | 1,288.79                | 110.20                    | 12.695            | 0                        |                              |  |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #10 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <b>Offset Site Error:</b> | 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder  |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |                           |           |
| 14,700.00   | 7,277.00              | 14,788.80             | 7,277.00              | 55.73            | 56.02         | 90.33                 | 1,398.99               | 1,287.42                | 111.57                    | 12.540            | 0                       |                          |                           |           |
| 14,800.00   | 7,277.00              | 14,888.80             | 7,277.00              | 56.42            | 56.71         | 90.33                 | 1,398.99               | 1,286.05                | 112.94                    | 12.387            | 0                       |                          |                           |           |
| 14,900.00   | 7,277.00              | 14,988.80             | 7,277.00              | 57.11            | 57.39         | 90.33                 | 1,398.99               | 1,284.68                | 114.31                    | 12.239            | 0                       |                          |                           |           |
| 15,000.00   | 7,277.00              | 15,088.80             | 7,277.00              | 57.79            | 58.07         | 90.33                 | 1,398.99               | 1,283.31                | 115.68                    | 12.094            | 0                       |                          |                           |           |
| 15,048.84   | 7,277.00              | 15,137.81             | 7,277.00              | 58.13            | 58.41         | 90.33                 | 1,398.98               | 1,282.63                | 116.35                    | 12.024            | 0                       | SF                       |                           |           |





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |        |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |        |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.73               | 196.22                 |                         |                           |                   |                          | 0                            |        |
| 100.00                       | 100.00                | 91.00                 | 91.00                 | 0.15             | 0.13          | -179.73               | 196.01                 | 195.73                  | 0.28                      | 699.988           | 0                        |                              |        |
| 200.00                       | 200.00                | 191.00                | 191.00                | 0.32             | 0.31          | -179.73               | 196.01                 | 195.38                  | 0.63                      | 312.831           | 0                        |                              |        |
| 300.00                       | 300.00                | 291.00                | 291.00                | 0.50             | 0.48          | -179.73               | 196.01                 | 195.04                  | 0.98                      | 200.906           | 0                        |                              |        |
| 400.00                       | 400.00                | 391.00                | 391.00                | 0.67             | 0.65          | -179.73               | 196.01                 | 194.69                  | 1.32                      | 147.966           | 0                        |                              |        |
| 500.00                       | 500.00                | 491.00                | 491.00                | 0.84             | 0.83          | -179.73               | 196.01                 | 194.34                  | 1.67                      | 117.108           | 0                        |                              |        |
| 600.00                       | 600.00                | 591.00                | 591.00                | 1.02             | 1.00          | -179.73               | 196.01                 | 193.99                  | 2.02                      | 96.899            | 0                        |                              | CC, ES |
| 700.00                       | 700.00                | 685.76                | 685.75                | 1.19             | 1.17          | -179.56               | 197.22                 | 194.86                  | 2.36                      | 83.464            | 0                        |                              |        |
| 800.00                       | 800.00                | 779.82                | 779.70                | 1.37             | 1.33          | -179.00               | 201.36                 | 198.65                  | 2.70                      | 74.503            | 0                        |                              |        |
| 900.00                       | 900.00                | 873.49                | 873.08                | 1.54             | 1.50          | -178.08               | 208.46                 | 205.41                  | 3.04                      | 68.498            | 0                        |                              |        |
| 1,000.00                     | 999.98                | 966.59                | 965.59                | 1.72             | 1.67          | -109.18               | 219.13                 | 215.75                  | 3.38                      | 64.853            | 0                        |                              |        |
| 1,100.00                     | 1,099.84              | 1,058.85              | 1,056.90              | 1.89             | 1.84          | -108.65               | 233.88                 | 230.17                  | 3.72                      | 62.927            | 0                        |                              |        |
| 1,200.00                     | 1,199.45              | 1,150.04              | 1,146.67              | 2.07             | 2.01          | -108.50               | 252.61                 | 248.56                  | 4.05                      | 62.304            | 0                        |                              |        |
| 1,239.63                     | 1,238.83              | 1,185.82              | 1,181.75              | 2.14             | 2.07          | -108.53               | 261.12                 | 256.93                  | 4.19                      | 62.344            | 0                        |                              |        |
| 1,300.00                     | 1,298.78              | 1,239.96              | 1,234.65              | 2.25             | 2.18          | -108.80               | 275.05                 | 270.65                  | 4.39                      | 62.594            | 0                        |                              |        |
| 1,400.00                     | 1,398.08              | 1,330.78              | 1,322.91              | 2.43             | 2.36          | -109.01               | 300.23                 | 295.50                  | 4.74                      | 63.363            | 0                        |                              |        |
| 1,500.00                     | 1,497.38              | 1,427.36              | 1,416.56              | 2.61             | 2.55          | -109.14               | 326.18                 | 321.08                  | 5.09                      | 64.031            | 0                        |                              |        |
| 1,600.00                     | 1,596.68              | 1,523.93              | 1,510.22              | 2.79             | 2.75          | -109.24               | 352.12                 | 346.67                  | 5.45                      | 64.596            | 0                        |                              |        |
| 1,700.00                     | 1,695.97              | 1,620.50              | 1,603.87              | 2.97             | 2.95          | -109.34               | 378.07                 | 372.26                  | 5.81                      | 65.080            | 0                        |                              |        |
| 1,800.00                     | 1,795.27              | 1,717.08              | 1,697.52              | 3.15             | 3.15          | -109.42               | 404.01                 | 397.85                  | 6.17                      | 65.498            | 0                        |                              |        |
| 1,900.00                     | 1,894.57              | 1,813.65              | 1,791.18              | 3.33             | 3.35          | -109.49               | 429.96                 | 423.43                  | 6.53                      | 65.863            | 0                        |                              |        |
| 2,000.00                     | 1,993.87              | 1,910.23              | 1,884.83              | 3.52             | 3.55          | -109.55               | 455.91                 | 449.02                  | 6.89                      | 66.184            | 0                        |                              |        |
| 2,100.00                     | 2,093.17              | 2,006.80              | 1,978.48              | 3.70             | 3.75          | -109.61               | 481.86                 | 474.61                  | 7.25                      | 66.468            | 0                        |                              |        |
| 2,200.00                     | 2,192.46              | 2,103.37              | 2,072.14              | 3.88             | 3.96          | -109.66               | 507.80                 | 500.19                  | 7.61                      | 66.721            | 0                        |                              |        |
| 2,300.00                     | 2,291.76              | 2,199.95              | 2,165.79              | 4.06             | 4.16          | -109.71               | 533.75                 | 525.78                  | 7.97                      | 66.948            | 0                        |                              |        |
| 2,400.00                     | 2,391.06              | 2,296.52              | 2,259.45              | 4.25             | 4.36          | -109.75               | 559.70                 | 551.37                  | 8.33                      | 67.152            | 0                        |                              |        |
| 2,500.00                     | 2,490.36              | 2,393.09              | 2,353.10              | 4.43             | 4.57          | -109.79               | 585.65                 | 576.95                  | 8.70                      | 67.337            | 0                        |                              |        |
| 2,600.00                     | 2,589.66              | 2,489.67              | 2,446.75              | 4.62             | 4.77          | -109.82               | 611.60                 | 602.54                  | 9.06                      | 67.505            | 0                        |                              |        |
| 2,700.00                     | 2,688.95              | 2,586.24              | 2,540.41              | 4.80             | 4.98          | -109.85               | 637.55                 | 628.13                  | 9.42                      | 67.658            | 0                        |                              |        |
| 2,800.00                     | 2,788.25              | 2,682.82              | 2,634.06              | 4.98             | 5.19          | -109.88               | 663.50                 | 653.71                  | 9.79                      | 67.799            | 0                        |                              |        |
| 2,900.00                     | 2,887.55              | 2,779.39              | 2,727.71              | 5.17             | 5.39          | -109.91               | 689.45                 | 679.30                  | 10.15                     | 67.928            | 0                        |                              |        |
| 3,000.00                     | 2,986.85              | 2,875.96              | 2,821.37              | 5.35             | 5.60          | -109.94               | 715.40                 | 704.89                  | 10.51                     | 68.047            | 0                        |                              |        |
| 3,100.00                     | 3,086.15              | 2,972.54              | 2,915.02              | 5.54             | 5.80          | -109.96               | 741.35                 | 730.47                  | 10.88                     | 68.158            | 0                        |                              |        |
| 3,200.00                     | 3,185.44              | 3,069.11              | 3,008.68              | 5.72             | 6.01          | -109.98               | 767.30                 | 756.06                  | 11.24                     | 68.260            | 0                        |                              |        |
| 3,300.00                     | 3,284.74              | 3,165.69              | 3,102.33              | 5.90             | 6.22          | -110.00               | 793.25                 | 781.64                  | 11.60                     | 68.355            | 0                        |                              |        |
| 3,400.00                     | 3,384.04              | 3,262.26              | 3,195.98              | 6.09             | 6.42          | -110.02               | 819.20                 | 807.23                  | 11.97                     | 68.444            | 0                        |                              |        |
| 3,500.00                     | 3,483.34              | 3,358.83              | 3,289.64              | 6.27             | 6.63          | -110.04               | 845.15                 | 832.82                  | 12.33                     | 68.527            | 0                        |                              |        |
| 3,600.00                     | 3,582.64              | 3,455.41              | 3,383.29              | 6.46             | 6.84          | -110.06               | 871.10                 | 858.40                  | 12.70                     | 68.605            | 0                        |                              |        |
| 3,700.00                     | 3,681.94              | 3,551.98              | 3,476.94              | 6.64             | 7.05          | -110.07               | 897.05                 | 883.99                  | 13.06                     | 68.678            | 0                        |                              |        |
| 3,800.00                     | 3,781.23              | 3,648.56              | 3,570.60              | 6.83             | 7.25          | -110.09               | 923.00                 | 909.58                  | 13.43                     | 68.746            | 0                        |                              |        |
| 3,900.00                     | 3,880.53              | 3,745.13              | 3,664.25              | 7.01             | 7.46          | -110.10               | 948.95                 | 935.16                  | 13.79                     | 68.811            | 0                        |                              |        |
| 4,000.00                     | 3,979.83              | 3,841.70              | 3,757.91              | 7.20             | 7.67          | -110.11               | 974.90                 | 960.75                  | 14.16                     | 68.872            | 0                        |                              |        |
| 4,100.00                     | 4,079.13              | 3,938.28              | 3,851.56              | 7.38             | 7.88          | -110.13               | 1,000.85               | 986.33                  | 14.52                     | 68.929            | 0                        |                              |        |
| 4,200.00                     | 4,178.43              | 4,034.85              | 3,945.21              | 7.56             | 8.09          | -110.14               | 1,026.80               | 1,011.92                | 14.88                     | 68.984            | 0                        |                              |        |
| 4,300.00                     | 4,277.72              | 4,131.42              | 4,038.87              | 7.75             | 8.29          | -110.15               | 1,052.76               | 1,037.51                | 15.25                     | 69.035            | 0                        |                              |        |
| 4,400.00                     | 4,377.02              | 4,228.00              | 4,132.52              | 7.93             | 8.50          | -110.16               | 1,078.71               | 1,063.09                | 15.61                     | 69.084            | 0                        |                              |        |
| 4,500.00                     | 4,476.32              | 4,324.57              | 4,226.17              | 8.12             | 8.71          | -110.17               | 1,104.66               | 1,088.68                | 15.98                     | 69.131            | 0                        |                              |        |
| 4,600.00                     | 4,575.62              | 4,421.15              | 4,319.83              | 8.30             | 8.92          | -110.18               | 1,130.61               | 1,114.26                | 16.34                     | 69.175            | 0                        |                              |        |
| 4,700.00                     | 4,674.92              | 4,517.72              | 4,413.48              | 8.49             | 9.13          | -110.19               | 1,156.56               | 1,139.85                | 16.71                     | 69.217            | 0                        |                              |        |
| 4,800.00                     | 4,774.21              | 4,614.29              | 4,507.14              | 8.67             | 9.33          | -110.20               | 1,182.51               | 1,165.44                | 17.07                     | 69.257            | 0                        |                              |        |
| 4,900.00                     | 4,873.51              | 4,710.87              | 4,600.79              | 8.86             | 9.54          | -110.21               | 1,208.46               | 1,191.02                | 17.44                     | 69.296            | 0                        |                              |        |
| 5,000.00                     | 4,972.81              | 4,807.44              | 4,694.44              | 9.04             | 9.75          | -110.22               | 1,234.41               | 1,216.61                | 17.80                     | 69.332            | 0                        |                              |        |
| 5,100.00                     | 5,072.11              | 4,904.02              | 4,788.10              | 9.23             | 9.96          | -110.23               | 1,260.36               | 1,242.19                | 18.17                     | 69.367            | 0                        |                              |        |
| 5,200.00                     | 5,171.41              | 5,000.59              | 4,881.75              | 9.41             | 10.17         | -110.23               | 1,286.31               | 1,267.78                | 18.53                     | 69.401            | 0                        |                              |        |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #11 - Original Hole - Rev 0 |                              | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|------------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |                              |                              |  |
| 5,300.00                     | 5,270.70              | 5,097.16              | 4,975.40              | 9.60             | 10.38         | -110.24               | 1,312.27               | 1,293.37                | 18.90                     | 69.433            | 0                        |                          |  |                              |                              |  |
| 5,400.00                     | 5,370.00              | 5,193.74              | 5,069.06              | 9.78             | 10.58         | -110.25               | 1,338.22               | 1,318.95                | 19.26                     | 69.464            | 0                        |                          |  |                              |                              |  |
| 5,500.00                     | 5,469.30              | 5,290.31              | 5,162.71              | 9.97             | 10.79         | -110.25               | 1,364.17               | 1,344.54                | 19.63                     | 69.494            | 0                        |                          |  |                              |                              |  |
| 5,600.00                     | 5,568.60              | 5,386.88              | 5,256.36              | 10.15            | 11.00         | -110.26               | 1,390.12               | 1,370.12                | 20.00                     | 69.522            | 0                        |                          |  |                              |                              |  |
| 5,700.00                     | 5,667.90              | 5,483.46              | 5,350.02              | 10.34            | 11.21         | -110.27               | 1,416.07               | 1,395.71                | 20.36                     | 69.550            | 0                        |                          |  |                              |                              |  |
| 5,800.00                     | 5,767.20              | 5,580.03              | 5,443.67              | 10.52            | 11.42         | -110.27               | 1,442.02               | 1,421.30                | 20.73                     | 69.576            | 0                        |                          |  |                              |                              |  |
| 5,900.00                     | 5,866.49              | 5,676.61              | 5,537.33              | 10.71            | 11.63         | -110.28               | 1,467.97               | 1,446.88                | 21.09                     | 69.601            | 0                        |                          |  |                              |                              |  |
| 6,000.00                     | 5,965.79              | 5,773.18              | 5,630.98              | 10.89            | 11.83         | -110.29               | 1,493.92               | 1,472.47                | 21.46                     | 69.626            | 0                        |                          |  |                              |                              |  |
| 6,100.00                     | 6,065.09              | 5,931.39              | 5,785.08              | 11.08            | 12.16         | -110.35               | 1,518.49               | 1,496.56                | 21.93                     | 69.240            | 0                        |                          |  |                              |                              |  |
| 6,200.00                     | 6,164.39              | 6,118.70              | 5,969.71              | 11.26            | 12.52         | -110.60               | 1,537.65               | 1,515.20                | 22.45                     | 68.488            | 0                        |                          |  |                              |                              |  |
| 6,237.42                     | 6,201.55              | 6,189.68              | 6,040.14              | 11.33            | 12.64         | -110.75               | 1,543.35               | 1,520.70                | 22.65                     | 68.151            | 0                        |                          |  |                              |                              |  |
| 6,300.00                     | 6,263.76              | 6,309.25              | 6,159.22              | 11.45            | 12.85         | -111.16               | 1,550.80               | 1,527.81                | 22.98                     | 67.481            | 0                        |                          |  |                              |                              |  |
| 6,400.00                     | 6,363.44              | 6,501.88              | 6,351.70              | 11.62            | 13.14         | -111.68               | 1,556.87               | 1,533.37                | 23.50                     | 66.243            | 0                        |                          |  |                              |                              |  |
| 6,500.00                     | 6,463.34              | 6,604.52              | 6,454.34              | 11.79            | 13.30         | -111.87               | 1,558.52               | 1,534.66                | 23.86                     | 65.307            | 0                        |                          |  |                              |                              |  |
| 6,577.05                     | 6,540.38              | 6,681.77              | 6,531.42              | 11.92            | 13.41         | -179.99               | 1,558.90               | 1,534.20                | 24.70                     | 63.118            | 0                        |                          |  |                              |                              |  |
| 6,580.11                     | 6,543.44              | 6,684.81              | 6,534.44              | 11.93            | 13.41         | -180.00               | 1,558.90               | 1,534.19                | 24.71                     | 63.093            | 0                        |                          |  |                              |                              |  |
| 6,600.00                     | 6,563.33              | 6,704.48              | 6,553.92              | 11.96            | 13.44         | 179.90                | 1,558.90               | 1,534.13                | 24.77                     | 62.934            | 0                        |                          |  |                              |                              |  |
| 6,677.05                     | 6,640.38              | 6,778.61              | 6,626.38              | 12.09            | 13.53         | 179.33                | 1,559.01               | 1,534.01                | 25.01                     | 62.345            | 0                        |                          |  |                              |                              |  |
| 6,700.00                     | 6,663.33              | 6,800.00              | 6,646.90              | 12.13            | 13.55         | 89.12                 | 1,559.10               | 1,534.59                | 24.51                     | 63.615            | 0                        |                          |  |                              |                              |  |
| 6,750.00                     | 6,713.17              | 6,846.02              | 6,690.30              | 12.20            | 13.60         | 88.65                 | 1,559.36               | 1,534.71                | 24.65                     | 63.261            | 0                        |                          |  |                              |                              |  |
| 6,800.00                     | 6,762.57              | 6,891.24              | 6,731.76              | 12.28            | 13.65         | 88.20                 | 1,559.72               | 1,534.94                | 24.78                     | 62.936            | 0                        |                          |  |                              |                              |  |
| 6,850.00                     | 6,811.21              | 6,935.74              | 6,771.22              | 12.34            | 13.70         | 87.76                 | 1,560.17               | 1,535.26                | 24.91                     | 62.637            | 0                        |                          |  |                              |                              |  |
| 6,900.00                     | 6,858.80              | 6,979.58              | 6,808.58              | 12.41            | 13.74         | 87.33                 | 1,560.69               | 1,535.66                | 25.03                     | 62.361            | 0                        |                          |  |                              |                              |  |
| 6,950.00                     | 6,905.04              | 7,022.82              | 6,843.81              | 12.47            | 13.78         | 86.92                 | 1,561.27               | 1,536.13                | 25.14                     | 62.103            | 0                        |                          |  |                              |                              |  |
| 7,000.00                     | 6,949.66              | 7,065.50              | 6,876.83              | 12.52            | 13.82         | 86.52                 | 1,561.91               | 1,536.66                | 25.25                     | 61.860            | 0                        |                          |  |                              |                              |  |
| 7,050.00                     | 6,992.36              | 7,107.68              | 6,907.62              | 12.58            | 13.86         | 86.15                 | 1,562.57               | 1,537.22                | 25.35                     | 61.628            | 0                        |                          |  |                              |                              |  |
| 7,100.00                     | 7,032.90              | 7,150.00              | 6,936.52              | 12.63            | 13.91         | 85.79                 | 1,563.26               | 1,537.80                | 25.46                     | 61.401            | 0                        |                          |  |                              |                              |  |
| 7,150.00                     | 7,071.01              | 7,190.74              | 6,962.35              | 12.69            | 13.95         | 85.46                 | 1,563.95               | 1,538.39                | 25.56                     | 61.176            | 0                        |                          |  |                              |                              |  |
| 7,200.00                     | 7,106.47              | 7,231.69              | 6,986.23              | 12.74            | 13.99         | 85.15                 | 1,564.64               | 1,538.97                | 25.67                     | 60.945            | 0                        |                          |  |                              |                              |  |
| 7,250.00                     | 7,139.06              | 7,272.33              | 7,007.76              | 12.80            | 14.04         | 84.87                 | 1,565.31               | 1,539.52                | 25.79                     | 60.704            | 0                        |                          |  |                              |                              |  |
| 7,300.00                     | 7,168.57              | 7,312.68              | 7,026.92              | 12.86            | 14.09         | 84.61                 | 1,565.94               | 1,540.03                | 25.91                     | 60.448            | 0                        |                          |  |                              |                              |  |
| 7,350.00                     | 7,194.82              | 7,350.00              | 7,042.60              | 12.93            | 14.13         | 84.39                 | 1,566.52               | 1,540.49                | 26.03                     | 60.182            | 0                        |                          |  |                              |                              |  |
| 7,400.00                     | 7,217.66              | 7,392.66              | 7,058.07              | 13.00            | 14.19         | 84.18                 | 1,567.05               | 1,540.87                | 26.17                     | 59.870            | 0                        |                          |  |                              |                              |  |
| 7,450.00                     | 7,236.94              | 7,432.36              | 7,070.04              | 13.07            | 14.25         | 84.01                 | 1,567.51               | 1,541.18                | 26.33                     | 59.540            | 0                        |                          |  |                              |                              |  |
| 7,500.00                     | 7,252.54              | 7,471.91              | 7,079.60              | 13.15            | 14.31         | 83.87                 | 1,567.90               | 1,541.40                | 26.50                     | 59.175            | 0                        |                          |  |                              |                              |  |
| 7,550.00                     | 7,264.36              | 7,511.35              | 7,086.74              | 13.25            | 14.38         | 83.76                 | 1,568.20               | 1,541.53                | 26.68                     | 58.786            | 0                        |                          |  |                              |                              |  |
| 7,600.00                     | 7,272.34              | 7,550.00              | 7,091.40              | 13.36            | 14.45         | 83.69                 | 1,568.42               | 1,541.55                | 26.87                     | 58.367            | 0                        |                          |  |                              |                              |  |
| 7,650.00                     | 7,276.43              | 7,589.99              | 7,093.76              | 13.49            | 14.53         | 83.64                 | 1,568.55               | 1,541.46                | 27.09                     | 57.909            | 0                        |                          |  |                              |                              |  |
| 7,677.05                     | 7,277.00              | 7,612.24              | 7,094.00              | 13.55            | 14.57         | 83.63                 | 1,568.58               | 1,541.37                | 27.21                     | 57.646            | 0                        |                          |  |                              |                              |  |
| 7,700.00                     | 7,277.00              | 7,635.19              | 7,094.00              | 13.62            | 14.62         | 83.63                 | 1,568.58               | 1,541.25                | 27.33                     | 57.393            | 0                        |                          |  |                              |                              |  |
| 7,800.00                     | 7,277.00              | 7,735.19              | 7,094.00              | 13.90            | 14.85         | 83.63                 | 1,568.58               | 1,540.70                | 27.88                     | 56.259            | 0                        |                          |  |                              |                              |  |
| 7,900.00                     | 7,277.00              | 7,835.19              | 7,094.00              | 14.20            | 15.12         | 83.63                 | 1,568.58               | 1,540.09                | 28.49                     | 55.057            | 0                        |                          |  |                              |                              |  |
| 8,000.00                     | 7,277.00              | 7,935.19              | 7,094.00              | 14.54            | 15.42         | 83.63                 | 1,568.58               | 1,539.43                | 29.15                     | 53.805            | 0                        |                          |  |                              |                              |  |
| 8,100.00                     | 7,277.00              | 8,035.19              | 7,094.00              | 14.90            | 15.75         | 83.63                 | 1,568.58               | 1,538.71                | 29.87                     | 52.519            | 0                        |                          |  |                              |                              |  |
| 8,200.00                     | 7,277.00              | 8,135.19              | 7,094.00              | 15.28            | 16.10         | 83.63                 | 1,568.58               | 1,537.95                | 30.63                     | 51.213            | 0                        |                          |  |                              |                              |  |
| 8,300.00                     | 7,277.00              | 8,235.19              | 7,094.00              | 15.69            | 16.48         | 83.63                 | 1,568.58               | 1,537.15                | 31.43                     | 49.901            | 0                        |                          |  |                              |                              |  |
| 8,400.00                     | 7,277.00              | 8,335.19              | 7,094.00              | 16.11            | 16.88         | 83.63                 | 1,568.58               | 1,536.30                | 32.28                     | 48.593            | 0                        |                          |  |                              |                              |  |
| 8,500.00                     | 7,277.00              | 8,435.19              | 7,094.00              | 16.56            | 17.31         | 83.63                 | 1,568.58               | 1,535.42                | 33.16                     | 47.298            | 0                        |                          |  |                              |                              |  |
| 8,600.00                     | 7,277.00              | 8,535.19              | 7,094.00              | 17.02            | 17.75         | 83.63                 | 1,568.58               | 1,534.50                | 34.08                     | 46.023            | 0                        |                          |  |                              |                              |  |
| 8,700.00                     | 7,277.00              | 8,635.19              | 7,094.00              | 17.49            | 18.21         | 83.63                 | 1,568.58               | 1,533.55                | 35.03                     | 44.775            | 0                        |                          |  |                              |                              |  |
| 8,800.00                     | 7,277.00              | 8,735.19              | 7,094.00              | 17.99            | 18.68         | 83.63                 | 1,568.58               | 1,532.57                | 36.01                     | 43.557            | 0                        |                          |  |                              |                              |  |
| 8,900.00                     | 7,277.00              | 8,835.19              | 7,094.00              | 18.49            | 19.17         | 83.63                 | 1,568.58               | 1,531.56                | 37.02                     | 42.373            | 0                        |                          |  |                              |                              |  |
| 9,000.00                     | 7,277.00              | 8,935.19              | 7,094.00              | 19.01            | 19.67         | 83.63                 | 1,568.58               | 1,530.53                | 38.05                     | 41.224            | 0                        |                          |  |                              |                              |  |
| 9,100.00                     | 7,277.00              | 9,035.19              | 7,094.00              | 19.54            | 20.18         | 83.63                 | 1,568.58               | 1,529.48                | 39.10                     | 40.112            | 0                        |                          |  |                              |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #11 - Original Hole - Rev 0 |  | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--|--|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |  |  |                              |  |
|                              |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |  |  |                              |  |
| 9,200.00                     | 7,277.00              | 9,135.19              | 7,094.00              | 20.08            | 20.71         | 83.63                 | 1,568.58               | 1,528.40                | 40.18                     | 39.038            | 0                        |                          |  |  |                              |  |
| 9,300.00                     | 7,277.00              | 9,235.19              | 7,094.00              | 20.63            | 21.24         | 83.63                 | 1,568.58               | 1,527.30                | 41.28                     | 38.003            | 0                        |                          |  |  |                              |  |
| 9,400.00                     | 7,277.00              | 9,335.19              | 7,094.00              | 21.19            | 21.79         | 83.63                 | 1,568.58               | 1,526.19                | 42.39                     | 37.005            | 0                        |                          |  |  |                              |  |
| 9,500.00                     | 7,277.00              | 9,435.19              | 7,094.00              | 21.76            | 22.34         | 83.63                 | 1,568.58               | 1,525.06                | 43.52                     | 36.044            | 0                        |                          |  |  |                              |  |
| 9,600.00                     | 7,277.00              | 9,535.19              | 7,094.00              | 22.34            | 22.90         | 83.63                 | 1,568.58               | 1,523.92                | 44.66                     | 35.120            | 0                        |                          |  |  |                              |  |
| 9,700.00                     | 7,277.00              | 9,635.19              | 7,094.00              | 22.92            | 23.47         | 83.63                 | 1,568.58               | 1,522.76                | 45.82                     | 34.232            | 0                        |                          |  |  |                              |  |
| 9,800.00                     | 7,277.00              | 9,735.19              | 7,094.00              | 23.51            | 24.05         | 83.63                 | 1,568.58               | 1,521.59                | 46.99                     | 33.378            | 0                        |                          |  |  |                              |  |
| 9,900.00                     | 7,277.00              | 9,835.19              | 7,094.00              | 24.10            | 24.63         | 83.63                 | 1,568.58               | 1,520.40                | 48.18                     | 32.557            | 0                        |                          |  |  |                              |  |
| 10,000.00                    | 7,277.00              | 9,935.19              | 7,094.00              | 24.71            | 25.22         | 83.63                 | 1,568.58               | 1,519.21                | 49.37                     | 31.769            | 0                        |                          |  |  |                              |  |
| 10,100.00                    | 7,277.00              | 10,035.19             | 7,094.00              | 25.31            | 25.81         | 83.63                 | 1,568.58               | 1,518.00                | 50.58                     | 31.011            | 0                        |                          |  |  |                              |  |
| 10,200.00                    | 7,277.00              | 10,135.19             | 7,094.00              | 25.92            | 26.41         | 83.63                 | 1,568.58               | 1,516.78                | 51.80                     | 30.283            | 0                        |                          |  |  |                              |  |
| 10,300.00                    | 7,277.00              | 10,235.19             | 7,094.00              | 26.54            | 27.02         | 83.63                 | 1,568.58               | 1,515.56                | 53.02                     | 29.583            | 0                        |                          |  |  |                              |  |
| 10,400.00                    | 7,277.00              | 10,335.19             | 7,094.00              | 27.16            | 27.63         | 83.63                 | 1,568.58               | 1,514.32                | 54.26                     | 28.911            | 0                        |                          |  |  |                              |  |
| 10,500.00                    | 7,277.00              | 10,435.19             | 7,094.00              | 27.78            | 28.24         | 83.63                 | 1,568.58               | 1,513.08                | 55.50                     | 28.264            | 0                        |                          |  |  |                              |  |
| 10,600.00                    | 7,277.00              | 10,535.19             | 7,094.00              | 28.41            | 28.86         | 83.63                 | 1,568.58               | 1,511.83                | 56.75                     | 27.642            | 0                        |                          |  |  |                              |  |
| 10,700.00                    | 7,277.00              | 10,635.19             | 7,094.00              | 29.04            | 29.48         | 83.63                 | 1,568.58               | 1,510.58                | 58.00                     | 27.043            | 0                        |                          |  |  |                              |  |
| 10,800.00                    | 7,277.00              | 10,735.19             | 7,094.00              | 29.68            | 30.11         | 83.63                 | 1,568.58               | 1,509.32                | 59.26                     | 26.468            | 0                        |                          |  |  |                              |  |
| 10,900.00                    | 7,277.00              | 10,835.19             | 7,094.00              | 30.32            | 30.74         | 83.63                 | 1,568.58               | 1,508.05                | 60.53                     | 25.913            | 0                        |                          |  |  |                              |  |
| 11,000.00                    | 7,277.00              | 10,935.19             | 7,094.00              | 30.96            | 31.37         | 83.63                 | 1,568.58               | 1,506.77                | 61.81                     | 25.379            | 0                        |                          |  |  |                              |  |
| 11,100.00                    | 7,277.00              | 11,035.19             | 7,094.00              | 31.60            | 32.00         | 83.63                 | 1,568.58               | 1,505.49                | 63.09                     | 24.864            | 0                        |                          |  |  |                              |  |
| 11,200.00                    | 7,277.00              | 11,135.19             | 7,094.00              | 32.25            | 32.64         | 83.63                 | 1,568.58               | 1,504.21                | 64.37                     | 24.368            | 0                        |                          |  |  |                              |  |
| 11,300.00                    | 7,277.00              | 11,235.19             | 7,094.00              | 32.89            | 33.28         | 83.63                 | 1,568.58               | 1,502.92                | 65.66                     | 23.890            | 0                        |                          |  |  |                              |  |
| 11,400.00                    | 7,277.00              | 11,335.19             | 7,094.00              | 33.54            | 33.93         | 83.63                 | 1,568.58               | 1,501.63                | 66.95                     | 23.428            | 0                        |                          |  |  |                              |  |
| 11,500.00                    | 7,277.00              | 11,435.19             | 7,094.00              | 34.20            | 34.57         | 83.63                 | 1,568.58               | 1,500.33                | 68.25                     | 22.983            | 0                        |                          |  |  |                              |  |
| 11,600.00                    | 7,277.00              | 11,535.19             | 7,094.00              | 34.85            | 35.22         | 83.63                 | 1,568.58               | 1,499.03                | 69.55                     | 22.552            | 0                        |                          |  |  |                              |  |
| 11,700.00                    | 7,277.00              | 11,635.19             | 7,094.00              | 35.51            | 35.87         | 83.63                 | 1,568.58               | 1,497.72                | 70.86                     | 22.137            | 0                        |                          |  |  |                              |  |
| 11,800.00                    | 7,277.00              | 11,735.19             | 7,094.00              | 36.16            | 36.52         | 83.63                 | 1,568.58               | 1,496.41                | 72.17                     | 21.735            | 0                        |                          |  |  |                              |  |
| 11,900.00                    | 7,277.00              | 11,835.19             | 7,094.00              | 36.82            | 37.17         | 83.63                 | 1,568.58               | 1,495.10                | 73.48                     | 21.347            | 0                        |                          |  |  |                              |  |
| 12,000.00                    | 7,277.00              | 11,935.19             | 7,094.00              | 37.49            | 37.83         | 83.63                 | 1,568.58               | 1,493.78                | 74.80                     | 20.972            | 0                        |                          |  |  |                              |  |
| 12,100.00                    | 7,277.00              | 12,035.19             | 7,094.00              | 38.15            | 38.48         | 83.63                 | 1,568.58               | 1,492.47                | 76.11                     | 20.608            | 0                        |                          |  |  |                              |  |
| 12,200.00                    | 7,277.00              | 12,135.19             | 7,094.00              | 38.81            | 39.14         | 83.63                 | 1,568.58               | 1,491.14                | 77.44                     | 20.257            | 0                        |                          |  |  |                              |  |
| 12,300.00                    | 7,277.00              | 12,235.19             | 7,094.00              | 39.48            | 39.80         | 83.63                 | 1,568.58               | 1,489.82                | 78.76                     | 19.916            | 0                        |                          |  |  |                              |  |
| 12,400.00                    | 7,277.00              | 12,335.19             | 7,094.00              | 40.15            | 40.46         | 83.63                 | 1,568.58               | 1,488.49                | 80.09                     | 19.586            | 0                        |                          |  |  |                              |  |
| 12,500.00                    | 7,277.00              | 12,435.19             | 7,094.00              | 40.81            | 41.13         | 83.63                 | 1,568.58               | 1,487.16                | 81.42                     | 19.266            | 0                        |                          |  |  |                              |  |
| 12,600.00                    | 7,277.00              | 12,535.19             | 7,094.00              | 41.48            | 41.79         | 83.63                 | 1,568.58               | 1,485.83                | 82.75                     | 18.956            | 0                        |                          |  |  |                              |  |
| 12,700.00                    | 7,277.00              | 12,635.19             | 7,094.00              | 42.15            | 42.46         | 83.63                 | 1,568.58               | 1,484.50                | 84.08                     | 18.656            | 0                        |                          |  |  |                              |  |
| 12,800.00                    | 7,277.00              | 12,735.19             | 7,094.00              | 42.82            | 43.12         | 83.63                 | 1,568.58               | 1,483.16                | 85.42                     | 18.364            | 0                        |                          |  |  |                              |  |
| 12,900.00                    | 7,277.00              | 12,835.19             | 7,094.00              | 43.50            | 43.79         | 83.63                 | 1,568.58               | 1,481.82                | 86.76                     | 18.081            | 0                        |                          |  |  |                              |  |
| 13,000.00                    | 7,277.00              | 12,935.19             | 7,094.00              | 44.17            | 44.46         | 83.63                 | 1,568.58               | 1,480.48                | 88.10                     | 17.806            | 0                        |                          |  |  |                              |  |
| 13,100.00                    | 7,277.00              | 13,035.19             | 7,094.00              | 44.85            | 45.13         | 83.63                 | 1,568.58               | 1,479.14                | 89.44                     | 17.538            | 0                        |                          |  |  |                              |  |
| 13,200.00                    | 7,277.00              | 13,135.19             | 7,094.00              | 45.52            | 45.80         | 83.63                 | 1,568.58               | 1,477.80                | 90.78                     | 17.279            | 0                        |                          |  |  |                              |  |
| 13,300.00                    | 7,277.00              | 13,235.19             | 7,094.00              | 46.20            | 46.47         | 83.63                 | 1,568.58               | 1,476.45                | 92.13                     | 17.027            | 0                        |                          |  |  |                              |  |
| 13,400.00                    | 7,277.00              | 13,335.19             | 7,094.00              | 46.87            | 47.15         | 83.63                 | 1,568.58               | 1,475.11                | 93.47                     | 16.781            | 0                        |                          |  |  |                              |  |
| 13,500.00                    | 7,277.00              | 13,435.19             | 7,094.00              | 47.55            | 47.82         | 83.63                 | 1,568.58               | 1,473.76                | 94.82                     | 16.543            | 0                        |                          |  |  |                              |  |
| 13,600.00                    | 7,277.00              | 13,535.19             | 7,094.00              | 48.23            | 48.50         | 83.63                 | 1,568.58               | 1,472.41                | 96.17                     | 16.310            | 0                        |                          |  |  |                              |  |
| 13,700.00                    | 7,277.00              | 13,635.19             | 7,094.00              | 48.91            | 49.17         | 83.63                 | 1,568.58               | 1,471.06                | 97.52                     | 16.084            | 0                        |                          |  |  |                              |  |
| 13,800.00                    | 7,277.00              | 13,735.19             | 7,094.00              | 49.59            | 49.85         | 83.63                 | 1,568.58               | 1,469.71                | 98.87                     | 15.864            | 0                        |                          |  |  |                              |  |
| 13,900.00                    | 7,277.00              | 13,835.19             | 7,094.00              | 50.27            | 50.52         | 83.63                 | 1,568.58               | 1,468.35                | 100.23                    | 15.650            | 0                        |                          |  |  |                              |  |
| 14,000.00                    | 7,277.00              | 13,935.19             | 7,094.00              | 50.95            | 51.20         | 83.63                 | 1,568.58               | 1,467.00                | 101.58                    | 15.441            | 0                        |                          |  |  |                              |  |
| 14,100.00                    | 7,277.00              | 14,035.19             | 7,094.00              | 51.63            | 51.88         | 83.63                 | 1,568.58               | 1,465.64                | 102.94                    | 15.238            | 0                        |                          |  |  |                              |  |
| 14,200.00                    | 7,277.00              | 14,135.19             | 7,094.00              | 52.31            | 52.56         | 83.63                 | 1,568.58               | 1,464.28                | 104.30                    | 15.039            | 0                        |                          |  |  |                              |  |
| 14,300.00                    | 7,277.00              | 14,235.19             | 7,094.00              | 53.00            | 53.24         | 83.63                 | 1,568.58               | 1,462.92                | 105.66                    | 14.846            | 0                        |                          |  |  |                              |  |
| 14,400.00                    | 7,277.00              | 14,335.19             | 7,094.00              | 53.68            | 53.92         | 83.63                 | 1,568.58               | 1,461.56                | 107.02                    | 14.657            | 0                        |                          |  |  |                              |  |
| 14,500.00                    | 7,277.00              | 14,435.19             | 7,094.00              | 54.36            | 54.60         | 83.63                 | 1,568.58               | 1,460.20                | 108.38                    | 14.473            | 0                        |                          |  |  |                              |  |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #11 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder  |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,600.00   | 7,277.00              | 14,535.19             | 7,094.00              | 55.05            | 55.28         | 83.63                 | 1,568.58               | 1,458.84                | 109.74                    | 14.294            | 0                        |                          |                           |           |
| 14,700.00   | 7,277.00              | 14,635.19             | 7,094.00              | 55.73            | 55.96         | 83.63                 | 1,568.58               | 1,457.48                | 111.10                    | 14.118            | 0                        |                          |                           |           |
| 14,800.00   | 7,277.00              | 14,735.19             | 7,094.00              | 56.42            | 56.65         | 83.63                 | 1,568.58               | 1,456.11                | 112.47                    | 13.947            | 0                        |                          |                           |           |
| 14,900.00   | 7,277.00              | 14,835.19             | 7,094.00              | 57.11            | 57.33         | 83.63                 | 1,568.58               | 1,454.75                | 113.83                    | 13.780            | 0                        |                          |                           |           |
| 15,000.00   | 7,277.00              | 14,935.27             | 7,094.00              | 57.79            | 58.01         | 83.63                 | 1,568.58               | 1,453.38                | 115.20                    | 13.617            | 0                        |                          |                           |           |
| 15,048.84   | 7,277.00              | 14,984.11             | 7,094.00              | 58.13            | 58.35         | 83.63                 | 1,568.58               | 1,452.71                | 115.86                    | 13.538            | 0                        |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.67               | 224.29                 |                         |                           |                   |                          | CC, ES                       |  |
| 100.00                       | 100.00                | 90.00                 | 90.00                 | 0.15             | 0.13          | -179.67               | 224.07                 | 223.79                  | 0.28                      | 804.394           | 0                        |                              |  |
| 200.00                       | 200.00                | 190.00                | 190.00                | 0.32             | 0.30          | -179.67               | 224.07                 | 223.44                  | 0.62                      | 358.607           | 0                        |                              |  |
| 300.00                       | 300.00                | 290.00                | 290.00                | 0.50             | 0.48          | -179.67               | 224.07                 | 223.09                  | 0.97                      | 230.074           | 0                        |                              |  |
| 400.00                       | 400.00                | 390.00                | 390.00                | 0.67             | 0.65          | -179.67               | 224.07                 | 222.74                  | 1.32                      | 169.369           | 0                        |                              |  |
| 500.00                       | 500.00                | 490.00                | 490.00                | 0.84             | 0.83          | -179.67               | 224.07                 | 222.40                  | 1.67                      | 134.010           | 0                        |                              |  |
| 600.00                       | 600.00                | 583.89                | 583.88                | 1.02             | 0.99          | -179.56               | 225.29                 | 223.28                  | 2.01                      | 112.048           | 0                        |                              |  |
| 700.00                       | 700.00                | 676.94                | 676.82                | 1.19             | 1.15          | -179.16               | 229.52                 | 227.17                  | 2.35                      | 97.725            | 0                        |                              |  |
| 800.00                       | 800.00                | 769.61                | 769.21                | 1.37             | 1.32          | -178.51               | 236.78                 | 234.09                  | 2.69                      | 88.102            | 0                        |                              |  |
| 900.00                       | 900.00                | 861.71                | 860.75                | 1.54             | 1.48          | -177.67               | 247.08                 | 244.06                  | 3.03                      | 81.602            | 0                        |                              |  |
| 1,000.00                     | 999.98                | 953.06                | 951.17                | 1.72             | 1.65          | -108.83               | 261.01                 | 257.65                  | 3.36                      | 77.744            | 0                        |                              |  |
| 1,100.00                     | 1,099.84              | 1,043.38              | 1,040.13              | 1.89             | 1.82          | -108.34               | 279.02                 | 275.33                  | 3.69                      | 75.569            | 0                        |                              |  |
| 1,200.00                     | 1,199.45              | 1,132.41              | 1,127.28              | 2.07             | 1.99          | -108.20               | 301.01                 | 296.99                  | 4.03                      | 74.753            | 0                        |                              |  |
| 1,239.63                     | 1,238.83              | 1,167.28              | 1,161.26              | 2.14             | 2.06          | -108.22               | 310.81                 | 306.65                  | 4.16                      | 74.714            | 0                        |                              |  |
| 1,300.00                     | 1,298.78              | 1,219.97              | 1,212.42              | 2.25             | 2.17          | -108.54               | 326.71                 | 322.35                  | 4.36                      | 74.865            | 0                        |                              |  |
| 1,400.00                     | 1,398.08              | 1,306.16              | 1,295.56              | 2.43             | 2.35          | -108.87               | 355.26                 | 350.56                  | 4.70                      | 75.565            | 0                        |                              |  |
| 1,500.00                     | 1,497.38              | 1,394.82              | 1,380.41              | 2.61             | 2.54          | -109.03               | 386.31                 | 381.27                  | 5.04                      | 76.577            | 0                        |                              |  |
| 1,600.00                     | 1,596.68              | 1,489.71              | 1,471.05              | 2.79             | 2.74          | -109.15               | 417.88                 | 412.48                  | 5.40                      | 77.379            | 0                        |                              |  |
| 1,700.00                     | 1,695.97              | 1,584.59              | 1,561.69              | 2.97             | 2.95          | -109.25               | 449.66                 | 443.70                  | 5.76                      | 78.068            | 0                        |                              |  |
| 1,800.00                     | 1,795.27              | 1,679.47              | 1,652.33              | 3.15             | 3.16          | -109.34               | 481.03                 | 474.92                  | 6.12                      | 78.664            | 0                        |                              |  |
| 1,900.00                     | 1,894.57              | 1,774.35              | 1,742.98              | 3.33             | 3.37          | -109.42               | 512.61                 | 506.13                  | 6.47                      | 79.184            | 0                        |                              |  |
| 2,000.00                     | 1,993.87              | 1,869.23              | 1,833.62              | 3.52             | 3.58          | -109.49               | 544.18                 | 537.35                  | 6.83                      | 79.642            | 0                        |                              |  |
| 2,100.00                     | 2,093.17              | 1,964.12              | 1,924.26              | 3.70             | 3.80          | -109.55               | 575.76                 | 568.57                  | 7.19                      | 80.049            | 0                        |                              |  |
| 2,200.00                     | 2,192.46              | 2,059.00              | 2,014.90              | 3.88             | 4.01          | -109.61               | 607.34                 | 599.78                  | 7.55                      | 80.411            | 0                        |                              |  |
| 2,300.00                     | 2,291.76              | 2,153.88              | 2,105.54              | 4.06             | 4.22          | -109.66               | 638.91                 | 631.00                  | 7.91                      | 80.736            | 0                        |                              |  |
| 2,400.00                     | 2,391.06              | 2,248.76              | 2,196.19              | 4.25             | 4.44          | -109.70               | 670.49                 | 662.22                  | 8.27                      | 81.029            | 0                        |                              |  |
| 2,500.00                     | 2,490.36              | 2,343.64              | 2,286.83              | 4.43             | 4.66          | -109.74               | 702.07                 | 693.43                  | 8.64                      | 81.295            | 0                        |                              |  |
| 2,600.00                     | 2,589.66              | 2,438.52              | 2,377.47              | 4.62             | 4.87          | -109.78               | 733.65                 | 724.65                  | 9.00                      | 81.537            | 0                        |                              |  |
| 2,700.00                     | 2,688.95              | 2,533.41              | 2,468.11              | 4.80             | 5.09          | -109.82               | 765.23                 | 755.87                  | 9.36                      | 81.758            | 0                        |                              |  |
| 2,800.00                     | 2,788.25              | 2,628.29              | 2,558.75              | 4.98             | 5.31          | -109.85               | 796.81                 | 787.08                  | 9.72                      | 81.960            | 0                        |                              |  |
| 2,900.00                     | 2,887.55              | 2,723.17              | 2,649.40              | 5.17             | 5.53          | -109.88               | 828.39                 | 818.30                  | 10.08                     | 82.146            | 0                        |                              |  |
| 3,000.00                     | 2,986.85              | 2,818.05              | 2,740.04              | 5.35             | 5.74          | -109.90               | 859.97                 | 849.52                  | 10.45                     | 82.318            | 0                        |                              |  |
| 3,100.00                     | 3,086.15              | 2,912.93              | 2,830.68              | 5.54             | 5.96          | -109.93               | 891.55                 | 880.74                  | 10.81                     | 82.478            | 0                        |                              |  |
| 3,200.00                     | 3,185.44              | 3,007.82              | 2,921.32              | 5.72             | 6.18          | -109.95               | 923.13                 | 911.95                  | 11.17                     | 82.626            | 0                        |                              |  |
| 3,300.00                     | 3,284.74              | 3,102.70              | 3,011.96              | 5.90             | 6.40          | -109.98               | 954.71                 | 943.17                  | 11.54                     | 82.763            | 0                        |                              |  |
| 3,400.00                     | 3,384.04              | 3,197.58              | 3,102.61              | 6.09             | 6.62          | -110.00               | 986.29                 | 974.39                  | 11.90                     | 82.892            | 0                        |                              |  |
| 3,500.00                     | 3,483.34              | 3,292.46              | 3,193.25              | 6.27             | 6.84          | -110.02               | 1,017.87               | 1,005.60                | 12.26                     | 83.012            | 0                        |                              |  |
| 3,600.00                     | 3,582.64              | 3,387.34              | 3,283.89              | 6.46             | 7.06          | -110.03               | 1,049.45               | 1,036.82                | 12.63                     | 83.124            | 0                        |                              |  |
| 3,700.00                     | 3,681.94              | 3,482.23              | 3,374.53              | 6.64             | 7.28          | -110.05               | 1,081.03               | 1,068.04                | 12.99                     | 83.230            | 0                        |                              |  |
| 3,800.00                     | 3,781.23              | 3,577.11              | 3,465.17              | 6.83             | 7.50          | -110.07               | 1,112.61               | 1,099.26                | 13.35                     | 83.329            | 0                        |                              |  |
| 3,900.00                     | 3,880.53              | 3,671.99              | 3,555.82              | 7.01             | 7.72          | -110.08               | 1,144.19               | 1,130.47                | 13.72                     | 83.423            | 0                        |                              |  |
| 4,000.00                     | 3,979.83              | 3,766.87              | 3,646.46              | 7.20             | 7.94          | -110.10               | 1,175.77               | 1,161.69                | 14.08                     | 83.511            | 0                        |                              |  |
| 4,100.00                     | 4,079.13              | 3,861.75              | 3,737.10              | 7.38             | 8.16          | -110.11               | 1,207.35               | 1,192.91                | 14.44                     | 83.594            | 0                        |                              |  |
| 4,200.00                     | 4,178.43              | 3,956.64              | 3,827.74              | 7.56             | 8.38          | -110.12               | 1,238.93               | 1,224.12                | 14.81                     | 83.673            | 0                        |                              |  |
| 4,300.00                     | 4,277.72              | 4,051.52              | 3,918.38              | 7.75             | 8.60          | -110.14               | 1,270.51               | 1,255.34                | 15.17                     | 83.748            | 0                        |                              |  |
| 4,400.00                     | 4,377.02              | 4,146.40              | 4,009.02              | 7.93             | 8.82          | -110.15               | 1,302.09               | 1,286.56                | 15.53                     | 83.819            | 0                        |                              |  |
| 4,500.00                     | 4,476.32              | 4,241.28              | 4,099.67              | 8.12             | 9.04          | -110.16               | 1,333.67               | 1,317.77                | 15.90                     | 83.887            | 0                        |                              |  |
| 4,600.00                     | 4,575.62              | 4,336.16              | 4,190.31              | 8.30             | 9.26          | -110.17               | 1,365.25               | 1,348.99                | 16.26                     | 83.951            | 0                        |                              |  |
| 4,700.00                     | 4,674.92              | 4,431.05              | 4,280.95              | 8.49             | 9.48          | -110.18               | 1,396.83               | 1,380.21                | 16.63                     | 84.013            | 0                        |                              |  |
| 4,800.00                     | 4,774.21              | 4,525.93              | 4,371.59              | 8.67             | 9.70          | -110.19               | 1,428.42               | 1,411.43                | 16.99                     | 84.071            | 0                        |                              |  |
| 4,900.00                     | 4,873.51              | 4,620.81              | 4,462.23              | 8.86             | 9.92          | -110.20               | 1,460.00               | 1,442.64                | 17.35                     | 84.127            | 0                        |                              |  |
| 5,000.00                     | 4,972.81              | 4,715.69              | 4,552.88              | 9.04             | 10.14         | -110.21               | 1,491.58               | 1,473.86                | 17.72                     | 84.181            | 0                        |                              |  |
| 5,100.00                     | 5,072.11              | 4,810.57              | 4,643.52              | 9.23             | 10.36         | -110.22               | 1,523.16               | 1,505.08                | 18.08                     | 84.232            | 0                        |                              |  |
| 5,200.00                     | 5,171.41              | 4,905.46              | 4,734.16              | 9.41             | 10.58         | -110.22               | 1,554.74               | 1,536.29                | 18.45                     | 84.281            | 0                        |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |         |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|---------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision     | Warning |
| 5,300.00                     | 5,270.70              | 5,000.34              | 4,824.80              | 9.60             | 10.80         | -110.23               | 1,586.32               | 1,567.51                | 18.81                     | 84.328            | 0                        |                              |         |
| 5,400.00                     | 5,370.00              | 5,095.22              | 4,915.44              | 9.78             | 11.02         | -110.24               | 1,617.90               | 1,598.73                | 19.18                     | 84.373            | 0                        |                              |         |
| 5,500.00                     | 5,469.30              | 5,190.10              | 5,006.09              | 9.97             | 11.25         | -110.25               | 1,649.48               | 1,629.94                | 19.54                     | 84.416            | 0                        |                              |         |
| 5,600.00                     | 5,568.60              | 5,284.98              | 5,096.73              | 10.15            | 11.47         | -110.25               | 1,681.07               | 1,661.16                | 19.90                     | 84.457            | 0                        |                              |         |
| 5,700.00                     | 5,667.90              | 5,379.87              | 5,187.37              | 10.34            | 11.69         | -110.26               | 1,712.65               | 1,692.38                | 20.27                     | 84.497            | 0                        |                              |         |
| 5,800.00                     | 5,767.20              | 5,474.75              | 5,278.01              | 10.52            | 11.91         | -110.27               | 1,744.23               | 1,723.59                | 20.63                     | 84.536            | 0                        |                              |         |
| 5,900.00                     | 5,866.49              | 5,569.63              | 5,368.65              | 10.71            | 12.13         | -110.27               | 1,775.81               | 1,754.81                | 21.00                     | 84.573            | 0                        |                              |         |
| 6,000.00                     | 5,965.79              | 5,664.51              | 5,459.30              | 10.89            | 12.35         | -110.28               | 1,807.39               | 1,786.03                | 21.36                     | 84.608            | 0                        |                              |         |
| 6,100.00                     | 6,065.09              | 5,820.30              | 5,608.64              | 11.08            | 12.70         | -110.31               | 1,838.29               | 1,816.45                | 21.84                     | 84.185            | 0                        |                              |         |
| 6,200.00                     | 6,164.39              | 6,062.60              | 5,844.92              | 11.26            | 13.19         | -110.54               | 1,862.94               | 1,840.48                | 22.46                     | 82.947            | 0                        |                              |         |
| 6,237.42                     | 6,201.55              | 6,155.42              | 5,936.49              | 11.33            | 13.37         | -110.69               | 1,870.18               | 1,847.49                | 22.69                     | 82.412            | 0                        |                              |         |
| 6,300.00                     | 6,263.76              | 6,312.73              | 6,092.66              | 11.45            | 13.64         | -111.14               | 1,879.57               | 1,856.47                | 23.10                     | 81.370            | 0                        |                              |         |
| 6,400.00                     | 6,363.44              | 6,567.74              | 6,347.28              | 11.62            | 14.02         | -111.71               | 1,886.93               | 1,863.20                | 23.73                     | 79.515            | 0                        |                              |         |
| 6,500.00                     | 6,463.34              | 6,673.80              | 6,453.34              | 11.79            | 14.18         | -111.88               | 1,888.59               | 1,864.48                | 24.10                     | 78.359            | 0                        |                              |         |
| 6,577.05                     | 6,540.38              | 6,751.15              | 6,530.53              | 11.92            | 14.28         | -179.96               | 1,888.96               | 1,863.38                | 25.59                     | 73.824            | 0                        |                              |         |
| 6,587.77                     | 6,551.10              | 6,761.80              | 6,541.10              | 11.94            | 14.29         | 180.00                | 1,888.96               | 1,863.34                | 25.62                     | 73.729            | 0                        |                              |         |
| 6,600.00                     | 6,563.33              | 6,773.89              | 6,553.07              | 11.96            | 14.31         | 179.95                | 1,888.97               | 1,863.31                | 25.66                     | 73.621            | 0                        |                              |         |
| 6,677.05                     | 6,640.38              | 6,848.17              | 6,625.69              | 12.09            | 14.39         | 179.48                | 1,889.05               | 1,863.16                | 25.89                     | 72.971            | 0                        |                              |         |
| 6,700.00                     | 6,663.33              | 6,869.61              | 6,646.26              | 12.13            | 14.42         | 89.30                 | 1,889.11               | 1,864.37                | 24.75                     | 76.335            | 0                        |                              |         |
| 6,750.00                     | 6,713.17              | 6,915.71              | 6,689.75              | 12.20            | 14.47         | 88.92                 | 1,889.32               | 1,864.43                | 24.89                     | 75.907            | 0                        |                              |         |
| 6,800.00                     | 6,762.57              | 6,961.02              | 6,731.31              | 12.28            | 14.51         | 88.55                 | 1,889.61               | 1,864.59                | 25.02                     | 75.511            | 0                        |                              |         |
| 6,850.00                     | 6,811.21              | 7,005.60              | 6,770.86              | 12.34            | 14.56         | 88.19                 | 1,889.97               | 1,864.82                | 25.15                     | 75.144            | 0                        |                              |         |
| 6,900.00                     | 6,858.80              | 7,050.00              | 6,808.70              | 12.41            | 14.60         | 87.83                 | 1,890.39               | 1,865.12                | 25.27                     | 74.800            | 0                        |                              |         |
| 6,950.00                     | 6,905.04              | 7,092.84              | 6,843.61              | 12.47            | 14.64         | 87.49                 | 1,890.87               | 1,865.48                | 25.39                     | 74.481            | 0                        |                              |         |
| 7,000.00                     | 6,949.66              | 7,135.60              | 6,876.71              | 12.52            | 14.68         | 87.17                 | 1,891.38               | 1,865.88                | 25.50                     | 74.177            | 0                        |                              |         |
| 7,050.00                     | 6,992.36              | 7,177.86              | 6,907.56              | 12.58            | 14.72         | 86.86                 | 1,891.92               | 1,866.32                | 25.61                     | 73.883            | 0                        |                              |         |
| 7,100.00                     | 7,032.90              | 7,219.67              | 6,936.12              | 12.63            | 14.76         | 86.57                 | 1,892.49               | 1,866.77                | 25.71                     | 73.595            | 0                        |                              |         |
| 7,150.00                     | 7,071.01              | 7,261.06              | 6,962.38              | 12.69            | 14.80         | 86.29                 | 1,893.05               | 1,867.23                | 25.82                     | 73.308            | 0                        |                              |         |
| 7,200.00                     | 7,106.47              | 7,300.00              | 6,985.13              | 12.74            | 14.84         | 86.04                 | 1,893.61               | 1,867.68                | 25.93                     | 73.023            | 0                        |                              |         |
| 7,250.00                     | 7,139.06              | 7,342.79              | 7,007.85              | 12.80            | 14.88         | 85.80                 | 1,894.16               | 1,868.11                | 26.05                     | 72.709            | 0                        |                              |         |
| 7,300.00                     | 7,168.57              | 7,383.20              | 7,027.03              | 12.86            | 14.93         | 85.59                 | 1,894.68               | 1,868.50                | 26.17                     | 72.385            | 0                        |                              |         |
| 7,350.00                     | 7,194.82              | 7,423.36              | 7,043.81              | 12.93            | 14.98         | 85.40                 | 1,895.16               | 1,868.85                | 26.31                     | 72.039            | 0                        |                              |         |
| 7,400.00                     | 7,217.66              | 7,463.31              | 7,058.19              | 13.00            | 15.03         | 85.23                 | 1,895.59               | 1,869.14                | 26.45                     | 71.666            | 0                        |                              |         |
| 7,450.00                     | 7,236.94              | 7,500.00              | 7,069.32              | 13.07            | 15.08         | 85.10                 | 1,895.98               | 1,869.38                | 26.60                     | 71.278            | 0                        |                              |         |
| 7,500.00                     | 7,252.54              | 7,542.68              | 7,079.71              | 13.15            | 15.14         | 84.97                 | 1,896.29               | 1,869.52                | 26.78                     | 70.822            | 0                        |                              |         |
| 7,550.00                     | 7,264.36              | 7,582.17              | 7,086.82              | 13.25            | 15.21         | 84.88                 | 1,896.55               | 1,869.59                | 26.96                     | 70.348            | 0                        |                              |         |
| 7,600.00                     | 7,272.34              | 7,621.57              | 7,091.51              | 13.36            | 15.27         | 84.82                 | 1,896.73               | 1,869.58                | 27.16                     | 69.841            | 0                        |                              |         |
| 7,650.00                     | 7,276.43              | 7,660.91              | 7,093.77              | 13.49            | 15.35         | 84.78                 | 1,896.84               | 1,869.47                | 27.37                     | 69.303            | 0                        |                              |         |
| 7,677.05                     | 7,277.00              | 7,683.37              | 7,094.00              | 13.55            | 15.39         | 84.77                 | 1,896.87               | 1,869.38                | 27.49                     | 68.991            | 0                        |                              |         |
| 7,700.00                     | 7,277.00              | 7,706.32              | 7,094.00              | 13.62            | 15.44         | 84.77                 | 1,896.87               | 1,869.26                | 27.61                     | 68.697            | 0                        |                              |         |
| 7,800.00                     | 7,277.00              | 7,806.32              | 7,094.00              | 13.90            | 15.65         | 84.77                 | 1,896.87               | 1,868.71                | 28.16                     | 67.361            | 0                        |                              |         |
| 7,900.00                     | 7,277.00              | 7,906.32              | 7,094.00              | 14.20            | 15.90         | 84.77                 | 1,896.87               | 1,868.10                | 28.77                     | 65.942            | 0                        |                              |         |
| 8,000.00                     | 7,277.00              | 8,006.32              | 7,094.00              | 14.54            | 16.18         | 84.77                 | 1,896.87               | 1,867.44                | 29.43                     | 64.463            | 0                        |                              |         |
| 8,100.00                     | 7,277.00              | 8,106.32              | 7,094.00              | 14.90            | 16.48         | 84.77                 | 1,896.87               | 1,866.73                | 30.14                     | 62.942            | 0                        |                              |         |
| 8,200.00                     | 7,277.00              | 8,206.32              | 7,094.00              | 15.28            | 16.82         | 84.77                 | 1,896.87               | 1,865.97                | 30.90                     | 61.397            | 0                        |                              |         |
| 8,300.00                     | 7,277.00              | 8,306.32              | 7,094.00              | 15.69            | 17.17         | 84.77                 | 1,896.87               | 1,865.17                | 31.70                     | 59.843            | 0                        |                              |         |
| 8,400.00                     | 7,277.00              | 8,406.32              | 7,094.00              | 16.11            | 17.55         | 84.77                 | 1,896.87               | 1,864.33                | 32.54                     | 58.293            | 0                        |                              |         |
| 8,500.00                     | 7,277.00              | 8,506.32              | 7,094.00              | 16.56            | 17.96         | 84.77                 | 1,896.87               | 1,863.45                | 33.42                     | 56.757            | 0                        |                              |         |
| 8,600.00                     | 7,277.00              | 8,606.32              | 7,094.00              | 17.02            | 18.38         | 84.77                 | 1,896.87               | 1,862.53                | 34.34                     | 55.244            | 0                        |                              |         |
| 8,700.00                     | 7,277.00              | 8,706.32              | 7,094.00              | 17.49            | 18.82         | 84.77                 | 1,896.87               | 1,861.59                | 35.28                     | 53.761            | 0                        |                              |         |
| 8,800.00                     | 7,277.00              | 8,806.32              | 7,094.00              | 17.99            | 19.28         | 84.77                 | 1,896.87               | 1,860.61                | 36.26                     | 52.312            | 0                        |                              |         |
| 8,900.00                     | 7,277.00              | 8,906.32              | 7,094.00              | 18.49            | 19.75         | 84.77                 | 1,896.87               | 1,859.61                | 37.26                     | 50.903            | 0                        |                              |         |
| 9,000.00                     | 7,277.00              | 9,006.32              | 7,094.00              | 19.01            | 20.24         | 84.77                 | 1,896.87               | 1,858.58                | 38.29                     | 49.535            | 0                        |                              |         |
| 9,100.00                     | 7,277.00              | 9,106.32              | 7,094.00              | 19.54            | 20.74         | 84.77                 | 1,896.87               | 1,857.52                | 39.35                     | 48.210            | 0                        |                              |         |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 9,200.00                     | 7,277.00              | 9,206.32              | 7,094.00              | 20.08            | 21.25         | 84.77                 | 1,896.87               | 1,856.45                | 40.42                     | 46.930            | 0                        |                              |  |
| 9,300.00                     | 7,277.00              | 9,306.32              | 7,094.00              | 20.63            | 21.77         | 84.77                 | 1,896.87               | 1,855.36                | 41.51                     | 45.694            | 0                        |                              |  |
| 9,400.00                     | 7,277.00              | 9,406.32              | 7,094.00              | 21.19            | 22.30         | 84.77                 | 1,896.87               | 1,854.25                | 42.62                     | 44.503            | 0                        |                              |  |
| 9,500.00                     | 7,277.00              | 9,506.32              | 7,094.00              | 21.76            | 22.84         | 84.77                 | 1,896.87               | 1,853.12                | 43.75                     | 43.356            | 0                        |                              |  |
| 9,600.00                     | 7,277.00              | 9,606.32              | 7,094.00              | 22.34            | 23.39         | 84.77                 | 1,896.87               | 1,851.98                | 44.89                     | 42.252            | 0                        |                              |  |
| 9,700.00                     | 7,277.00              | 9,706.32              | 7,094.00              | 22.92            | 23.95         | 84.77                 | 1,896.87               | 1,850.82                | 46.05                     | 41.190            | 0                        |                              |  |
| 9,800.00                     | 7,277.00              | 9,806.32              | 7,094.00              | 23.51            | 24.52         | 84.77                 | 1,896.87               | 1,849.65                | 47.22                     | 40.168            | 0                        |                              |  |
| 9,900.00                     | 7,277.00              | 9,906.32              | 7,094.00              | 24.10            | 25.09         | 84.77                 | 1,896.87               | 1,848.46                | 48.41                     | 39.186            | 0                        |                              |  |
| 10,000.00                    | 7,277.00              | 10,006.32             | 7,094.00              | 24.71            | 25.67         | 84.77                 | 1,896.87               | 1,847.27                | 49.60                     | 38.242            | 0                        |                              |  |
| 10,100.00                    | 7,277.00              | 10,106.32             | 7,094.00              | 25.31            | 26.25         | 84.77                 | 1,896.87               | 1,846.06                | 50.81                     | 37.335            | 0                        |                              |  |
| 10,200.00                    | 7,277.00              | 10,206.32             | 7,094.00              | 25.92            | 26.84         | 84.77                 | 1,896.87               | 1,844.85                | 52.02                     | 36.463            | 0                        |                              |  |
| 10,300.00                    | 7,277.00              | 10,306.32             | 7,094.00              | 26.54            | 27.44         | 84.77                 | 1,896.87               | 1,843.62                | 53.25                     | 35.625            | 0                        |                              |  |
| 10,400.00                    | 7,277.00              | 10,406.32             | 7,094.00              | 27.16            | 28.04         | 84.77                 | 1,896.87               | 1,842.39                | 54.48                     | 34.818            | 0                        |                              |  |
| 10,500.00                    | 7,277.00              | 10,506.32             | 7,094.00              | 27.78            | 28.65         | 84.77                 | 1,896.87               | 1,841.15                | 55.72                     | 34.043            | 0                        |                              |  |
| 10,600.00                    | 7,277.00              | 10,606.32             | 7,094.00              | 28.41            | 29.26         | 84.77                 | 1,896.87               | 1,839.90                | 56.97                     | 33.297            | 0                        |                              |  |
| 10,700.00                    | 7,277.00              | 10,706.32             | 7,094.00              | 29.04            | 29.87         | 84.77                 | 1,896.87               | 1,838.65                | 58.22                     | 32.579            | 0                        |                              |  |
| 10,800.00                    | 7,277.00              | 10,806.32             | 7,094.00              | 29.68            | 30.49         | 84.77                 | 1,896.87               | 1,837.38                | 59.49                     | 31.888            | 0                        |                              |  |
| 10,900.00                    | 7,277.00              | 10,906.32             | 7,094.00              | 30.32            | 31.11         | 84.77                 | 1,896.87               | 1,836.12                | 60.75                     | 31.222            | 0                        |                              |  |
| 11,000.00                    | 7,277.00              | 11,006.32             | 7,094.00              | 30.96            | 31.74         | 84.77                 | 1,896.87               | 1,834.84                | 62.03                     | 30.581            | 0                        |                              |  |
| 11,100.00                    | 7,277.00              | 11,106.32             | 7,094.00              | 31.60            | 32.37         | 84.77                 | 1,896.87               | 1,833.56                | 63.31                     | 29.963            | 0                        |                              |  |
| 11,200.00                    | 7,277.00              | 11,206.32             | 7,094.00              | 32.25            | 33.00         | 84.77                 | 1,896.87               | 1,832.28                | 64.59                     | 29.367            | 0                        |                              |  |
| 11,300.00                    | 7,277.00              | 11,306.32             | 7,094.00              | 32.89            | 33.63         | 84.77                 | 1,896.87               | 1,830.99                | 65.88                     | 28.792            | 0                        |                              |  |
| 11,400.00                    | 7,277.00              | 11,406.32             | 7,094.00              | 33.54            | 34.27         | 84.77                 | 1,896.87               | 1,829.69                | 67.18                     | 28.238            | 0                        |                              |  |
| 11,500.00                    | 7,277.00              | 11,506.32             | 7,094.00              | 34.20            | 34.91         | 84.77                 | 1,896.87               | 1,828.40                | 68.47                     | 27.702            | 0                        |                              |  |
| 11,600.00                    | 7,277.00              | 11,606.32             | 7,094.00              | 34.85            | 35.55         | 84.77                 | 1,896.87               | 1,827.09                | 69.78                     | 27.185            | 0                        |                              |  |
| 11,700.00                    | 7,277.00              | 11,706.32             | 7,094.00              | 35.51            | 36.20         | 84.77                 | 1,896.87               | 1,825.79                | 71.08                     | 26.686            | 0                        |                              |  |
| 11,800.00                    | 7,277.00              | 11,806.32             | 7,094.00              | 36.16            | 36.84         | 84.77                 | 1,896.87               | 1,824.48                | 72.39                     | 26.203            | 0                        |                              |  |
| 11,900.00                    | 7,277.00              | 11,906.32             | 7,094.00              | 36.82            | 37.49         | 84.77                 | 1,896.87               | 1,823.17                | 73.70                     | 25.736            | 0                        |                              |  |
| 12,000.00                    | 7,277.00              | 12,006.32             | 7,094.00              | 37.49            | 38.14         | 84.77                 | 1,896.87               | 1,821.85                | 75.02                     | 25.285            | 0                        |                              |  |
| 12,100.00                    | 7,277.00              | 12,106.32             | 7,094.00              | 38.15            | 38.79         | 84.77                 | 1,896.87               | 1,820.53                | 76.34                     | 24.848            | 0                        |                              |  |
| 12,200.00                    | 7,277.00              | 12,206.32             | 7,094.00              | 38.81            | 39.45         | 84.77                 | 1,896.87               | 1,819.21                | 77.66                     | 24.425            | 0                        |                              |  |
| 12,300.00                    | 7,277.00              | 12,306.32             | 7,094.00              | 39.48            | 40.10         | 84.77                 | 1,896.87               | 1,817.88                | 78.99                     | 24.015            | 0                        |                              |  |
| 12,400.00                    | 7,277.00              | 12,406.32             | 7,094.00              | 40.15            | 40.76         | 84.77                 | 1,896.87               | 1,816.55                | 80.31                     | 23.618            | 0                        |                              |  |
| 12,500.00                    | 7,277.00              | 12,506.32             | 7,094.00              | 40.81            | 41.42         | 84.77                 | 1,896.87               | 1,815.22                | 81.65                     | 23.233            | 0                        |                              |  |
| 12,600.00                    | 7,277.00              | 12,606.32             | 7,094.00              | 41.48            | 42.08         | 84.77                 | 1,896.87               | 1,813.89                | 82.98                     | 22.860            | 0                        |                              |  |
| 12,700.00                    | 7,277.00              | 12,706.32             | 7,094.00              | 42.15            | 42.74         | 84.77                 | 1,896.87               | 1,812.56                | 84.31                     | 22.498            | 0                        |                              |  |
| 12,800.00                    | 7,277.00              | 12,806.32             | 7,094.00              | 42.82            | 43.41         | 84.77                 | 1,896.87               | 1,811.22                | 85.65                     | 22.147            | 0                        |                              |  |
| 12,900.00                    | 7,277.00              | 12,906.32             | 7,094.00              | 43.50            | 44.07         | 84.77                 | 1,896.87               | 1,809.88                | 86.99                     | 21.806            | 0                        |                              |  |
| 13,000.00                    | 7,277.00              | 13,006.32             | 7,094.00              | 44.17            | 44.73         | 84.77                 | 1,896.87               | 1,808.54                | 88.33                     | 21.475            | 0                        |                              |  |
| 13,100.00                    | 7,277.00              | 13,106.32             | 7,094.00              | 44.85            | 45.40         | 84.77                 | 1,896.87               | 1,807.20                | 89.67                     | 21.153            | 0                        |                              |  |
| 13,200.00                    | 7,277.00              | 13,206.32             | 7,094.00              | 45.52            | 46.07         | 84.77                 | 1,896.87               | 1,805.85                | 91.02                     | 20.841            | 0                        |                              |  |
| 13,300.00                    | 7,277.00              | 13,306.32             | 7,094.00              | 46.20            | 46.74         | 84.77                 | 1,896.87               | 1,804.51                | 92.36                     | 20.537            | 0                        |                              |  |
| 13,400.00                    | 7,277.00              | 13,406.32             | 7,094.00              | 46.87            | 47.41         | 84.77                 | 1,896.87               | 1,803.16                | 93.71                     | 20.242            | 0                        |                              |  |
| 13,500.00                    | 7,277.00              | 13,506.32             | 7,094.00              | 47.55            | 48.08         | 84.77                 | 1,896.87               | 1,801.81                | 95.06                     | 19.954            | 0                        |                              |  |
| 13,600.00                    | 7,277.00              | 13,606.32             | 7,094.00              | 48.23            | 48.75         | 84.77                 | 1,896.87               | 1,800.46                | 96.41                     | 19.675            | 0                        |                              |  |
| 13,700.00                    | 7,277.00              | 13,706.32             | 7,094.00              | 48.91            | 49.42         | 84.77                 | 1,896.87               | 1,799.11                | 97.76                     | 19.402            | 0                        |                              |  |
| 13,800.00                    | 7,277.00              | 13,806.32             | 7,094.00              | 49.59            | 50.10         | 84.77                 | 1,896.87               | 1,797.75                | 99.12                     | 19.137            | 0                        |                              |  |
| 13,900.00                    | 7,277.00              | 13,906.32             | 7,094.00              | 50.27            | 50.77         | 84.77                 | 1,896.87               | 1,796.40                | 100.47                    | 18.879            | 0                        |                              |  |
| 14,000.00                    | 7,277.00              | 14,006.32             | 7,094.00              | 50.95            | 51.44         | 84.77                 | 1,896.87               | 1,795.04                | 101.83                    | 18.628            | 0                        |                              |  |
| 14,100.00                    | 7,277.00              | 14,106.32             | 7,094.00              | 51.63            | 52.12         | 84.77                 | 1,896.87               | 1,793.68                | 103.19                    | 18.383            | 0                        |                              |  |
| 14,200.00                    | 7,277.00              | 14,206.32             | 7,094.00              | 52.31            | 52.80         | 84.77                 | 1,896.87               | 1,792.32                | 104.55                    | 18.144            | 0                        |                              |  |
| 14,300.00                    | 7,277.00              | 14,306.32             | 7,094.00              | 53.00            | 53.47         | 84.77                 | 1,896.87               | 1,790.96                | 105.91                    | 17.911            | 0                        |                              |  |
| 14,400.00                    | 7,277.00              | 14,406.32             | 7,094.00              | 53.68            | 54.15         | 84.77                 | 1,896.87               | 1,789.60                | 107.27                    | 17.683            | 0                        |                              |  |
| 14,500.00                    | 7,277.00              | 14,506.32             | 7,094.00              | 54.36            | 54.83         | 84.77                 | 1,896.87               | 1,788.24                | 108.63                    | 17.462            | 0                        |                              |  |

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





|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #12 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder  |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,600.00   | 7,277.00              | 14,606.32             | 7,094.00              | 55.05            | 55.51         | 84.77                 | 1,896.87               | 1,786.88                | 109.99                    | 17.245            | 0                        |                          |                           |           |
| 14,700.00   | 7,277.00              | 14,706.32             | 7,094.00              | 55.73            | 56.19         | 84.77                 | 1,896.87               | 1,785.51                | 111.36                    | 17.034            | 0                        |                          |                           |           |
| 14,800.00   | 7,277.00              | 14,806.32             | 7,094.00              | 56.42            | 56.87         | 84.77                 | 1,896.87               | 1,784.15                | 112.72                    | 16.828            | 0                        |                          |                           |           |
| 14,900.00   | 7,277.00              | 14,906.32             | 7,094.00              | 57.11            | 57.55         | 84.77                 | 1,896.87               | 1,782.78                | 114.09                    | 16.626            | 0                        |                          |                           |           |
| 14,961.86   | 7,277.00              | 14,968.18             | 7,094.00              | 57.53            | 57.97         | 84.77                 | 1,896.87               | 1,781.79                | 115.08                    | 16.484            | 0                        |                          |                           |           |
| 15,000.00   | 7,277.00              | 15,006.28             | 7,094.00              | 57.79            | 58.23         | 84.77                 | 1,896.87               | 1,781.41                | 115.46                    | 16.429            | 0                        |                          |                           |           |
| 15,048.84   | 7,277.00              | 15,055.12             | 7,094.00              | 58.13            | 58.56         | 84.77                 | 1,896.87               | 1,780.75                | 116.12                    | 16.335            | 0                        |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 0.00                         | 0.00                  | 2.00                  | 2.00                  | 0.00             | 0.00          | 0.18                  | 56.11                  |                         |                           |                   | 0                        |                          |                    |           |
| 100.00                       | 100.00                | 102.00                | 102.00                | 0.15             | 0.15          | 0.18                  | 56.11                  | 55.81                   | 0.30                      | 189.098           | 0                        |                          |                    |           |
| 200.00                       | 200.00                | 202.00                | 202.00                | 0.32             | 0.32          | 0.18                  | 56.11                  | 55.46                   | 0.65                      | 86.883            | 0                        |                          |                    |           |
| 300.00                       | 300.00                | 302.00                | 302.00                | 0.50             | 0.50          | 0.18                  | 56.11                  | 55.11                   | 0.99                      | 56.398            | 0                        |                          |                    |           |
| 400.00                       | 400.00                | 402.00                | 402.00                | 0.67             | 0.67          | 0.18                  | 56.11                  | 54.76                   | 1.34                      | 41.749            | 0                        |                          |                    |           |
| 500.00                       | 500.00                | 502.00                | 502.00                | 0.84             | 0.85          | 0.18                  | 56.11                  | 54.41                   | 1.69                      | 33.141            | 0                        |                          |                    |           |
| 600.00                       | 600.00                | 602.00                | 602.00                | 1.02             | 1.02          | 0.18                  | 56.11                  | 54.06                   | 2.04                      | 27.476            | 0                        |                          |                    |           |
| 665.99                       | 665.99                | 667.99                | 667.99                | 1.13             | 1.14          | 0.18                  | 56.11                  | 53.83                   | 2.27                      | 24.691            | 0                        |                          |                    |           |
| 700.00                       | 700.00                | 701.97                | 701.97                | 1.19             | 1.20          | 0.18                  | 56.11                  | 53.72                   | 2.39                      | 23.465            | 0                        |                          |                    |           |
| 800.00                       | 800.00                | 800.00                | 799.98                | 1.37             | 1.37          | -1.07                 | 57.37                  | 54.64                   | 2.74                      | 20.961            | 0                        |                          |                    |           |
| 900.00                       | 900.00                | 898.96                | 898.80                | 1.54             | 1.54          | -4.46                 | 61.21                  | 58.12                   | 3.09                      | 19.831            | 0                        |                          |                    |           |
| 1,000.00                     | 999.98                | 997.01                | 996.47                | 1.72             | 1.72          | 59.89                 | 67.08                  | 63.65                   | 3.43                      | 19.534            | 0                        |                          |                    |           |
| 1,100.00                     | 1,099.84              | 1,094.78              | 1,093.54              | 1.89             | 1.89          | 57.63                 | 74.08                  | 70.29                   | 3.78                      | 19.581            | 0                        |                          |                    |           |
| 1,200.00                     | 1,199.45              | 1,193.37              | 1,191.00              | 2.07             | 2.07          | 56.57                 | 81.72                  | 77.59                   | 4.13                      | 19.770            | 0                        |                          |                    |           |
| 1,239.63                     | 1,238.83              | 1,232.91              | 1,230.06              | 2.14             | 2.14          | 56.67                 | 84.38                  | 80.10                   | 4.27                      | 19.743            | 0                        |                          |                    |           |
| 1,300.00                     | 1,298.78              | 1,293.16              | 1,289.58              | 2.25             | 2.25          | 57.11                 | 88.20                  | 83.71                   | 4.49                      | 19.646            | 0                        |                          |                    |           |
| 1,400.00                     | 1,398.08              | 1,392.95              | 1,388.17              | 2.43             | 2.44          | 57.75                 | 94.53                  | 89.69                   | 4.85                      | 19.500            | 0                        |                          |                    |           |
| 1,500.00                     | 1,497.38              | 1,492.75              | 1,486.76              | 2.61             | 2.63          | 58.32                 | 100.88                 | 95.67                   | 5.21                      | 19.372            | 0                        |                          |                    |           |
| 1,600.00                     | 1,596.68              | 1,592.54              | 1,585.35              | 2.79             | 2.81          | 58.81                 | 107.23                 | 101.67                  | 5.57                      | 19.259            | 0                        |                          |                    |           |
| 1,700.00                     | 1,695.97              | 1,692.34              | 1,683.94              | 2.97             | 3.00          | 59.26                 | 113.60                 | 107.67                  | 5.93                      | 19.157            | 0                        |                          |                    |           |
| 1,800.00                     | 1,795.27              | 1,792.13              | 1,782.53              | 3.15             | 3.19          | 59.65                 | 119.96                 | 113.67                  | 6.29                      | 19.065            | 0                        |                          |                    |           |
| 1,900.00                     | 1,894.57              | 1,891.92              | 1,881.12              | 3.33             | 3.38          | 60.00                 | 126.34                 | 119.68                  | 6.66                      | 18.983            | 0                        |                          |                    |           |
| 2,000.00                     | 1,993.87              | 1,991.72              | 1,979.71              | 3.52             | 3.57          | 60.33                 | 132.72                 | 125.70                  | 7.02                      | 18.908            | 0                        |                          |                    |           |
| 2,100.00                     | 2,093.17              | 2,091.51              | 2,078.29              | 3.70             | 3.76          | 60.62                 | 139.10                 | 131.71                  | 7.38                      | 18.839            | 0                        |                          |                    |           |
| 2,200.00                     | 2,192.46              | 2,191.30              | 2,176.88              | 3.88             | 3.94          | 60.88                 | 145.48                 | 137.73                  | 7.75                      | 18.777            | 0                        |                          |                    |           |
| 2,300.00                     | 2,291.76              | 2,291.10              | 2,275.47              | 4.06             | 4.13          | 61.13                 | 151.87                 | 143.76                  | 8.11                      | 18.719            | 0                        |                          |                    |           |
| 2,400.00                     | 2,391.06              | 2,390.89              | 2,374.06              | 4.25             | 4.32          | 61.35                 | 158.26                 | 149.78                  | 8.48                      | 18.666            | 0                        |                          |                    |           |
| 2,500.00                     | 2,490.36              | 2,490.69              | 2,472.65              | 4.43             | 4.52          | 61.56                 | 164.65                 | 155.81                  | 8.84                      | 18.617            | 0                        |                          |                    |           |
| 2,600.00                     | 2,589.66              | 2,590.48              | 2,571.24              | 4.62             | 4.71          | 61.75                 | 171.04                 | 161.83                  | 9.21                      | 18.572            | 0                        |                          |                    |           |
| 2,700.00                     | 2,688.95              | 2,690.27              | 2,669.83              | 4.80             | 4.90          | 61.93                 | 177.44                 | 167.86                  | 9.58                      | 18.529            | 0                        |                          |                    |           |
| 2,800.00                     | 2,788.25              | 2,790.07              | 2,768.42              | 4.98             | 5.09          | 62.09                 | 183.84                 | 173.90                  | 9.94                      | 18.490            | 0                        |                          |                    |           |
| 2,900.00                     | 2,887.55              | 2,889.86              | 2,867.00              | 5.17             | 5.28          | 62.24                 | 190.24                 | 179.93                  | 10.31                     | 18.453            | 0                        |                          |                    |           |
| 3,000.00                     | 2,986.85              | 2,989.66              | 2,965.59              | 5.35             | 5.47          | 62.39                 | 196.64                 | 185.96                  | 10.68                     | 18.419            | 0                        |                          |                    |           |
| 3,100.00                     | 3,086.15              | 3,089.45              | 3,064.18              | 5.54             | 5.66          | 62.52                 | 203.04                 | 192.00                  | 11.04                     | 18.386            | 0                        |                          |                    |           |
| 3,200.00                     | 3,185.44              | 3,189.24              | 3,162.77              | 5.72             | 5.85          | 62.65                 | 209.44                 | 198.03                  | 11.41                     | 18.356            | 0                        |                          |                    |           |
| 3,300.00                     | 3,284.74              | 3,289.04              | 3,261.36              | 5.90             | 6.04          | 62.77                 | 215.84                 | 204.07                  | 11.78                     | 18.327            | 0                        |                          |                    |           |
| 3,400.00                     | 3,384.04              | 3,388.83              | 3,359.95              | 6.09             | 6.23          | 62.88                 | 222.25                 | 210.10                  | 12.14                     | 18.300            | 0                        |                          |                    |           |
| 3,500.00                     | 3,483.34              | 3,488.62              | 3,458.54              | 6.27             | 6.42          | 62.99                 | 228.65                 | 216.14                  | 12.51                     | 18.275            | 0                        |                          |                    |           |
| 3,600.00                     | 3,582.64              | 3,588.42              | 3,557.13              | 6.46             | 6.62          | 63.09                 | 235.06                 | 222.18                  | 12.88                     | 18.251            | 0                        |                          |                    |           |
| 3,700.00                     | 3,681.94              | 3,688.21              | 3,655.72              | 6.64             | 6.81          | 63.18                 | 241.47                 | 228.22                  | 13.25                     | 18.228            | 0                        |                          |                    |           |
| 3,800.00                     | 3,781.23              | 3,788.01              | 3,754.30              | 6.83             | 7.00          | 63.27                 | 247.87                 | 234.26                  | 13.61                     | 18.206            | 0                        |                          |                    |           |
| 3,900.00                     | 3,880.53              | 3,887.80              | 3,852.89              | 7.01             | 7.19          | 63.36                 | 254.28                 | 240.30                  | 13.98                     | 18.186            | 0                        |                          |                    |           |
| 4,000.00                     | 3,979.83              | 3,987.59              | 3,951.48              | 7.20             | 7.38          | 63.44                 | 260.69                 | 246.34                  | 14.35                     | 18.166            | 0                        |                          |                    |           |
| 4,100.00                     | 4,079.13              | 4,087.39              | 4,050.07              | 7.38             | 7.57          | 63.51                 | 267.10                 | 252.38                  | 14.72                     | 18.147            | 0                        |                          |                    |           |
| 4,200.00                     | 4,178.43              | 4,187.18              | 4,148.66              | 7.56             | 7.76          | 63.59                 | 273.51                 | 258.42                  | 15.09                     | 18.129            | 0                        |                          |                    |           |
| 4,300.00                     | 4,277.72              | 4,286.97              | 4,247.25              | 7.75             | 7.96          | 63.66                 | 279.92                 | 264.46                  | 15.45                     | 18.112            | 0                        |                          |                    |           |
| 4,400.00                     | 4,377.02              | 4,386.77              | 4,345.84              | 7.93             | 8.15          | 63.73                 | 286.33                 | 270.50                  | 15.82                     | 18.096            | 0                        |                          |                    |           |
| 4,500.00                     | 4,476.32              | 4,486.56              | 4,444.43              | 8.12             | 8.34          | 63.79                 | 292.74                 | 276.54                  | 16.19                     | 18.080            | 0                        |                          |                    |           |
| 4,600.00                     | 4,575.62              | 4,586.36              | 4,543.01              | 8.30             | 8.53          | 63.85                 | 299.15                 | 282.59                  | 16.56                     | 18.066            | 0                        |                          |                    |           |
| 4,700.00                     | 4,674.92              | 4,686.15              | 4,641.60              | 8.49             | 8.72          | 63.91                 | 305.56                 | 288.63                  | 16.93                     | 18.051            | 0                        |                          |                    |           |
| 4,800.00                     | 4,774.21              | 4,785.94              | 4,740.19              | 8.67             | 8.91          | 63.97                 | 311.97                 | 294.67                  | 17.30                     | 18.038            | 0                        |                          |                    |           |
| 4,900.00                     | 4,873.51              | 4,885.74              | 4,838.78              | 8.86             | 9.11          | 64.02                 | 318.38                 | 300.72                  | 17.66                     | 18.024            | 0                        |                          |                    |           |
| 5,000.00                     | 4,972.81              | 4,985.53              | 4,937.37              | 9.04             | 9.30          | 64.07                 | 324.79                 | 306.76                  | 18.03                     | 18.012            | 0                        |                          |                    |           |
| 5,100.00                     | 5,072.11              | 5,085.32              | 5,035.96              | 9.23             | 9.49          | 64.12                 | 331.20                 | 312.80                  | 18.40                     | 18.000            | 0                        |                          |                    |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 5,200.00                     | 5,171.41              | 5,185.12              | 5,134.55              | 9.41             | 9.68          | 64.17                 | 337.62                 | 318.85                  | 18.77                     | 17.988            | 0                        |                              |  |
| 5,300.00                     | 5,270.70              | 5,284.91              | 5,233.14              | 9.60             | 9.87          | 64.22                 | 344.03                 | 324.89                  | 19.14                     | 17.977            | 0                        |                              |  |
| 5,400.00                     | 5,370.00              | 5,384.71              | 5,331.73              | 9.78             | 10.06         | 64.26                 | 350.44                 | 330.94                  | 19.51                     | 17.966            | 0                        |                              |  |
| 5,500.00                     | 5,469.30              | 5,484.50              | 5,430.31              | 9.97             | 10.26         | 64.31                 | 356.85                 | 336.98                  | 19.87                     | 17.955            | 0                        |                              |  |
| 5,600.00                     | 5,568.60              | 5,584.29              | 5,528.90              | 10.15            | 10.45         | 64.35                 | 363.27                 | 343.02                  | 20.24                     | 17.945            | 0                        |                              |  |
| 5,700.00                     | 5,667.90              | 5,684.09              | 5,627.49              | 10.34            | 10.64         | 64.39                 | 369.68                 | 349.07                  | 20.61                     | 17.935            | 0                        |                              |  |
| 5,800.00                     | 5,767.20              | 5,783.88              | 5,726.08              | 10.52            | 10.83         | 64.43                 | 376.10                 | 355.11                  | 20.98                     | 17.926            | 0                        |                              |  |
| 5,900.00                     | 5,866.49              | 5,883.68              | 5,824.67              | 10.71            | 11.02         | 64.46                 | 382.51                 | 361.16                  | 21.35                     | 17.917            | 0                        |                              |  |
| 6,000.00                     | 5,965.79              | 5,984.57              | 5,924.35              | 10.89            | 11.22         | 64.50                 | 388.91                 | 367.19                  | 21.72                     | 17.906            | 0                        |                              |  |
| 6,100.00                     | 6,065.09              | 6,095.63              | 6,034.43              | 11.08            | 11.42         | 64.79                 | 393.62                 | 371.51                  | 22.11                     | 17.805            | 0                        |                              |  |
| 6,200.00                     | 6,164.39              | 6,206.73              | 6,145.04              | 11.26            | 11.62         | 65.50                 | 395.50                 | 373.00                  | 22.50                     | 17.581            | 0                        |                              |  |
| 6,237.42                     | 6,201.55              | 6,248.24              | 6,186.46              | 11.33            | 11.69         | 65.88                 | 395.49                 | 372.85                  | 22.64                     | 17.468            | 0                        |                              |  |
| 6,300.00                     | 6,263.76              | 6,317.58              | 6,255.71              | 11.45            | 11.81         | 66.52                 | 394.92                 | 372.05                  | 22.88                     | 17.261            | 0                        |                              |  |
| 6,400.00                     | 6,363.44              | 6,427.33              | 6,365.44              | 11.62            | 11.99         | 67.47                 | 392.99                 | 369.74                  | 23.25                     | 16.905            | 0                        |                              |  |
| 6,500.00                     | 6,463.34              | 6,527.22              | 6,465.33              | 11.79            | 12.15         | 68.04                 | 391.31                 | 367.72                  | 23.59                     | 16.591            | 0                        |                              |  |
| 6,564.04                     | 6,527.37              | 6,590.77              | 6,528.73              | 11.90            | 12.24         | 68.75                 | 390.97                 | 367.17                  | 23.80                     | 16.427            | 0                        |                              |  |
| 6,577.05                     | 6,540.38              | 6,603.54              | 6,541.41              | 11.92            | 12.26         | 1.07                  | 390.99                 | 367.46                  | 23.52                     | 16.623            | 0                        |                              |  |
| 6,600.00                     | 6,563.33              | 6,625.92              | 6,563.53              | 11.96            | 12.29         | 1.56                  | 391.06                 | 367.48                  | 23.59                     | 16.578            | 0                        |                              |  |
| 6,677.05                     | 6,640.38              | 6,698.85              | 6,634.59              | 12.09            | 12.39         | 3.93                  | 391.92                 | 368.11                  | 23.81                     | 16.463            | 0                        |                              |  |
| 6,700.00                     | 6,663.33              | 6,719.87              | 6,654.68              | 12.13            | 12.42         | -85.17                | 392.42                 | 368.11                  | 24.31                     | 16.143            | 0                        |                              |  |
| 6,750.00                     | 6,713.17              | 6,765.07              | 6,697.12              | 12.20            | 12.47         | -83.26                | 393.84                 | 369.34                  | 24.50                     | 16.075            | 0                        |                              |  |
| 6,800.00                     | 6,762.57              | 6,809.49              | 6,737.65              | 12.28            | 12.52         | -81.41                | 395.67                 | 370.99                  | 24.68                     | 16.030            | 0                        |                              |  |
| 6,850.00                     | 6,811.21              | 6,853.19              | 6,776.20              | 12.34            | 12.57         | -79.63                | 397.84                 | 372.99                  | 24.85                     | 16.010            | 0                        |                              |  |
| 6,900.00                     | 6,858.80              | 6,896.26              | 6,812.72              | 12.41            | 12.61         | -77.92                | 400.29                 | 375.30                  | 25.00                     | 16.013            | 0                        |                              |  |
| 6,950.00                     | 6,905.04              | 6,938.73              | 6,847.14              | 12.47            | 12.66         | -76.30                | 402.97                 | 377.85                  | 25.12                     | 16.040            | 0                        |                              |  |
| 7,000.00                     | 6,949.66              | 6,980.67              | 6,879.43              | 12.52            | 12.70         | -74.78                | 405.81                 | 380.59                  | 25.22                     | 16.089            | 0                        |                              |  |
| 7,050.00                     | 6,992.36              | 7,022.12              | 6,909.55              | 12.58            | 12.74         | -73.35                | 408.75                 | 383.45                  | 25.29                     | 16.160            | 0                        |                              |  |
| 7,100.00                     | 7,032.90              | 7,063.14              | 6,937.47              | 12.63            | 12.79         | -72.02                | 411.71                 | 386.37                  | 25.34                     | 16.248            | 0                        |                              |  |
| 7,150.00                     | 7,071.01              | 7,100.00              | 6,960.86              | 12.69            | 12.83         | -70.88                | 414.67                 | 389.33                  | 25.35                     | 16.361            | 0                        |                              |  |
| 7,200.00                     | 7,106.47              | 7,144.05              | 6,986.59              | 12.74            | 12.88         | -69.68                | 417.51                 | 392.15                  | 25.36                     | 16.463            | 0                        |                              |  |
| 7,250.00                     | 7,139.06              | 7,184.03              | 7,007.75              | 12.80            | 12.93         | -68.68                | 420.23                 | 394.88                  | 25.35                     | 16.577            | 0                        |                              |  |
| 7,300.00                     | 7,168.57              | 7,223.73              | 7,026.63              | 12.86            | 12.98         | -67.78                | 422.76                 | 397.43                  | 25.33                     | 16.689            | 0                        |                              |  |
| 7,350.00                     | 7,194.82              | 7,263.20              | 7,043.19              | 12.93            | 13.04         | -67.00                | 425.08                 | 399.76                  | 25.32                     | 16.791            | 0                        |                              |  |
| 7,400.00                     | 7,217.66              | 7,300.00              | 7,056.61              | 13.00            | 13.09         | -66.36                | 427.13                 | 401.83                  | 25.30                     | 16.884            | 0                        |                              |  |
| 7,450.00                     | 7,236.94              | 7,341.58              | 7,069.36              | 13.07            | 13.15         | -65.78                | 428.87                 | 403.55                  | 25.32                     | 16.937            | 0                        |                              |  |
| 7,500.00                     | 7,252.54              | 7,380.55              | 7,078.95              | 13.15            | 13.22         | -65.33                | 430.30                 | 404.94                  | 25.36                     | 16.965            | 0                        |                              |  |
| 7,550.00                     | 7,264.36              | 7,419.42              | 7,086.19              | 13.25            | 13.29         | -65.00                | 431.38                 | 405.95                  | 25.43                     | 16.961            | 0                        |                              |  |
| 7,600.00                     | 7,272.34              | 7,458.22              | 7,091.08              | 13.36            | 13.37         | -64.79                | 432.10                 | 406.56                  | 25.54                     | 16.917            | 0                        |                              |  |
| 7,650.00                     | 7,276.43              | 7,500.00              | 7,093.71              | 13.49            | 13.46         | -64.68                | 432.47                 | 406.75                  | 25.71                     | 16.820            | 0                        |                              |  |
| 7,652.32                     | 7,276.52              | 7,500.00              | 7,093.71              | 13.49            | 13.46         | -64.68                | 432.46                 | 406.78                  | 25.68                     | 16.837            | 0                        |                              |  |
| 7,677.05                     | 7,277.00              | 7,519.27              | 7,094.00              | 13.55            | 13.51         | -64.67                | 432.49                 | 406.68                  | 25.80                     | 16.763            | 0                        |                              |  |
| 7,685.32                     | 7,277.00              | 7,525.82              | 7,094.00              | 13.58            | 13.53         | -64.67                | 432.48                 | 406.64                  | 25.84                     | 16.737            | 0                        |                              |  |
| 7,700.00                     | 7,277.00              | 7,540.50              | 7,094.00              | 13.62            | 13.56         | -64.67                | 432.48                 | 406.56                  | 25.92                     | 16.686            | 0                        |                              |  |
| 7,800.00                     | 7,277.00              | 7,640.50              | 7,094.00              | 13.90            | 13.83         | -64.67                | 432.48                 | 406.00                  | 26.48                     | 16.330            | 0                        |                              |  |
| 7,900.00                     | 7,277.00              | 7,740.50              | 7,094.00              | 14.20            | 14.14         | -64.67                | 432.48                 | 405.38                  | 27.10                     | 15.960            | 0                        |                              |  |
| 8,000.00                     | 7,277.00              | 7,840.50              | 7,094.00              | 14.54            | 14.47         | -64.67                | 432.48                 | 404.72                  | 27.76                     | 15.580            | 0                        |                              |  |
| 8,100.00                     | 7,277.00              | 7,940.50              | 7,094.00              | 14.90            | 14.83         | -64.67                | 432.48                 | 404.02                  | 28.46                     | 15.194            | 0                        |                              |  |
| 8,200.00                     | 7,277.00              | 8,040.50              | 7,094.00              | 15.28            | 15.22         | -64.67                | 432.48                 | 403.27                  | 29.21                     | 14.806            | 0                        |                              |  |
| 8,300.00                     | 7,277.00              | 8,140.50              | 7,094.00              | 15.69            | 15.62         | -64.67                | 432.48                 | 402.49                  | 29.99                     | 14.419            | 0                        |                              |  |
| 8,400.00                     | 7,277.00              | 8,240.50              | 7,094.00              | 16.11            | 16.05         | -64.67                | 432.48                 | 401.67                  | 30.81                     | 14.036            | 0                        |                              |  |
| 8,500.00                     | 7,277.00              | 8,340.50              | 7,094.00              | 16.56            | 16.49         | -64.67                | 432.48                 | 400.82                  | 31.66                     | 13.659            | 0                        |                              |  |
| 8,600.00                     | 7,277.00              | 8,440.50              | 7,094.00              | 17.02            | 16.95         | -64.67                | 432.48                 | 399.94                  | 32.54                     | 13.289            | 0                        |                              |  |
| 8,700.00                     | 7,277.00              | 8,540.50              | 7,094.00              | 17.49            | 17.43         | -64.67                | 432.48                 | 399.03                  | 33.45                     | 12.928            | 0                        |                              |  |
| 8,800.00                     | 7,277.00              | 8,640.50              | 7,094.00              | 17.99            | 17.92         | -64.67                | 432.48                 | 398.10                  | 34.39                     | 12.578            | 0                        |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 8,900.00                     | 7,277.00              | 8,740.50              | 7,094.00              | 18.49            | 18.43         | -64.67                | 432.48                 | 397.14                  | 35.34                     | 12.237            | 0                        |                              |  |
| 9,000.00                     | 7,277.00              | 8,840.50              | 7,094.00              | 19.01            | 18.95         | -64.67                | 432.48                 | 396.16                  | 36.32                     | 11.908            | 0                        |                              |  |
| 9,100.00                     | 7,277.00              | 8,940.50              | 7,094.00              | 19.54            | 19.48         | -64.67                | 432.48                 | 395.17                  | 37.32                     | 11.589            | 0                        |                              |  |
| 9,200.00                     | 7,277.00              | 9,040.50              | 7,094.00              | 20.08            | 20.02         | -64.67                | 432.48                 | 394.15                  | 38.33                     | 11.282            | 0                        |                              |  |
| 9,300.00                     | 7,277.00              | 9,140.50              | 7,094.00              | 20.63            | 20.57         | -64.67                | 432.48                 | 393.12                  | 39.36                     | 10.987            | 0                        |                              |  |
| 9,400.00                     | 7,277.00              | 9,240.50              | 7,094.00              | 21.19            | 21.13         | -64.67                | 432.48                 | 392.07                  | 40.41                     | 10.702            | 0                        |                              |  |
| 9,500.00                     | 7,277.00              | 9,340.50              | 7,094.00              | 21.76            | 21.70         | -64.67                | 432.48                 | 391.01                  | 41.47                     | 10.428            | 0                        |                              |  |
| 9,600.00                     | 7,277.00              | 9,440.50              | 7,094.00              | 22.34            | 22.27         | -64.67                | 432.48                 | 389.93                  | 42.55                     | 10.164            | 0                        |                              |  |
| 9,700.00                     | 7,277.00              | 9,540.50              | 7,094.00              | 22.92            | 22.85         | -64.67                | 432.48                 | 388.84                  | 43.64                     | 9.911             | 0                        |                              |  |
| 9,800.00                     | 7,277.00              | 9,640.50              | 7,094.00              | 23.51            | 23.44         | -64.67                | 432.48                 | 387.75                  | 44.74                     | 9.667             | 0                        |                              |  |
| 9,900.00                     | 7,277.00              | 9,740.50              | 7,094.00              | 24.10            | 24.04         | -64.67                | 432.48                 | 386.64                  | 45.85                     | 9.433             | 0                        |                              |  |
| 10,000.00                    | 7,277.00              | 9,840.50              | 7,094.00              | 24.71            | 24.64         | -64.67                | 432.48                 | 385.52                  | 46.96                     | 9.209             | 0                        |                              |  |
| 10,100.00                    | 7,277.00              | 9,940.50              | 7,094.00              | 25.31            | 25.25         | -64.67                | 432.48                 | 384.39                  | 48.09                     | 8.993             | 0                        |                              |  |
| 10,200.00                    | 7,277.00              | 10,040.50             | 7,094.00              | 25.92            | 25.86         | -64.67                | 432.48                 | 383.25                  | 49.23                     | 8.785             | 0                        |                              |  |
| 10,300.00                    | 7,277.00              | 10,140.50             | 7,094.00              | 26.54            | 26.47         | -64.67                | 432.48                 | 382.11                  | 50.37                     | 8.585             | 0                        |                              |  |
| 10,400.00                    | 7,277.00              | 10,240.50             | 7,094.00              | 27.16            | 27.09         | -64.67                | 432.48                 | 380.96                  | 51.53                     | 8.393             | 0                        |                              |  |
| 10,500.00                    | 7,277.00              | 10,340.50             | 7,094.00              | 27.78            | 27.72         | -64.67                | 432.48                 | 379.80                  | 52.69                     | 8.209             | 0                        |                              |  |
| 10,600.00                    | 7,277.00              | 10,440.50             | 7,094.00              | 28.41            | 28.34         | -64.67                | 432.48                 | 378.63                  | 53.85                     | 8.031             | 0                        |                              |  |
| 10,700.00                    | 7,277.00              | 10,540.50             | 7,094.00              | 29.04            | 28.98         | -64.67                | 432.48                 | 377.46                  | 55.02                     | 7.860             | 0                        |                              |  |
| 10,800.00                    | 7,277.00              | 10,640.50             | 7,094.00              | 29.68            | 29.61         | -64.67                | 432.48                 | 376.28                  | 56.20                     | 7.695             | 0                        |                              |  |
| 10,900.00                    | 7,277.00              | 10,740.50             | 7,094.00              | 30.32            | 30.25         | -64.67                | 432.48                 | 375.10                  | 57.38                     | 7.537             | 0                        |                              |  |
| 11,000.00                    | 7,277.00              | 10,840.50             | 7,094.00              | 30.96            | 30.89         | -64.67                | 432.48                 | 373.91                  | 58.57                     | 7.384             | 0                        |                              |  |
| 11,100.00                    | 7,277.00              | 10,940.50             | 7,094.00              | 31.60            | 31.53         | -64.67                | 432.48                 | 372.72                  | 59.76                     | 7.237             | 0                        |                              |  |
| 11,200.00                    | 7,277.00              | 11,040.50             | 7,094.00              | 32.25            | 32.18         | -64.67                | 432.48                 | 371.52                  | 60.96                     | 7.095             | 0                        |                              |  |
| 11,300.00                    | 7,277.00              | 11,140.50             | 7,094.00              | 32.89            | 32.82         | -64.67                | 432.48                 | 370.32                  | 62.16                     | 6.958             | 0                        |                              |  |
| 11,365.73                    | 7,277.00              | 11,206.23             | 7,094.00              | 33.32            | 33.25         | -64.67                | 432.48                 | 369.53                  | 62.95                     | 6.870             | 0                        |                              |  |
| 11,400.00                    | 7,277.00              | 11,240.50             | 7,094.00              | 33.54            | 33.47         | -64.67                | 432.48                 | 369.12                  | 63.36                     | 6.825             | 0                        |                              |  |
| 11,500.00                    | 7,277.00              | 11,340.50             | 7,094.00              | 34.20            | 34.13         | -64.67                | 432.48                 | 367.91                  | 64.57                     | 6.698             | 0                        |                              |  |
| 11,600.00                    | 7,277.00              | 11,440.50             | 7,094.00              | 34.85            | 34.78         | -64.67                | 432.48                 | 366.70                  | 65.78                     | 6.574             | 0                        |                              |  |
| 11,700.00                    | 7,277.00              | 11,540.50             | 7,094.00              | 35.51            | 35.44         | -64.67                | 432.48                 | 365.48                  | 67.00                     | 6.455             | 0                        |                              |  |
| 11,800.00                    | 7,277.00              | 11,640.50             | 7,094.00              | 36.16            | 36.10         | -64.67                | 432.48                 | 364.27                  | 68.22                     | 6.340             | 0                        |                              |  |
| 11,900.00                    | 7,277.00              | 11,740.50             | 7,094.00              | 36.82            | 36.75         | -64.67                | 432.48                 | 363.04                  | 69.44                     | 6.228             | 0                        |                              |  |
| 12,000.00                    | 7,277.00              | 11,840.50             | 7,094.00              | 37.49            | 37.42         | -64.67                | 432.48                 | 361.82                  | 70.66                     | 6.120             | 0                        |                              |  |
| 12,100.00                    | 7,277.00              | 11,940.50             | 7,094.00              | 38.15            | 38.08         | -64.67                | 432.48                 | 360.59                  | 71.89                     | 6.016             | 0                        |                              |  |
| 12,200.00                    | 7,277.00              | 12,040.50             | 7,094.00              | 38.81            | 38.74         | -64.67                | 432.48                 | 359.36                  | 73.12                     | 5.915             | 0                        |                              |  |
| 12,300.00                    | 7,277.00              | 12,140.50             | 7,094.00              | 39.48            | 39.41         | -64.67                | 432.48                 | 358.13                  | 74.35                     | 5.817             | 0                        |                              |  |
| 12,400.00                    | 7,277.00              | 12,240.50             | 7,094.00              | 40.15            | 40.08         | -64.67                | 432.48                 | 356.90                  | 75.58                     | 5.722             | 0                        |                              |  |
| 12,500.00                    | 7,277.00              | 12,340.50             | 7,094.00              | 40.81            | 40.74         | -64.67                | 432.48                 | 355.66                  | 76.82                     | 5.630             | 0                        |                              |  |
| 12,600.00                    | 7,277.00              | 12,440.50             | 7,094.00              | 41.48            | 41.41         | -64.67                | 432.48                 | 354.42                  | 78.06                     | 5.541             | 0                        |                              |  |
| 12,700.00                    | 7,277.00              | 12,540.50             | 7,094.00              | 42.15            | 42.08         | -64.67                | 432.48                 | 353.18                  | 79.30                     | 5.454             | 0                        |                              |  |
| 12,800.00                    | 7,277.00              | 12,640.50             | 7,094.00              | 42.82            | 42.75         | -64.67                | 432.48                 | 351.94                  | 80.54                     | 5.370             | 0                        |                              |  |
| 12,878.31                    | 7,277.00              | 12,718.81             | 7,094.00              | 43.35            | 43.28         | -64.67                | 432.48                 | 350.97                  | 81.51                     | 5.306             | 0                        |                              |  |
| 12,900.00                    | 7,277.00              | 12,740.50             | 7,094.00              | 43.50            | 43.43         | -64.67                | 432.48                 | 350.70                  | 81.78                     | 5.288             | 0                        |                              |  |
| 13,000.00                    | 7,277.00              | 12,840.50             | 7,094.00              | 44.17            | 44.10         | -64.67                | 432.48                 | 349.45                  | 83.03                     | 5.209             | 0                        |                              |  |
| 13,100.00                    | 7,277.00              | 12,940.50             | 7,094.00              | 44.85            | 44.77         | -64.67                | 432.48                 | 348.21                  | 84.28                     | 5.132             | 0                        |                              |  |
| 13,200.00                    | 7,277.00              | 13,040.50             | 7,094.00              | 45.52            | 45.45         | -64.67                | 432.48                 | 346.96                  | 85.52                     | 5.057             | 0                        |                              |  |
| 13,300.00                    | 7,277.00              | 13,140.50             | 7,094.00              | 46.20            | 46.13         | -64.67                | 432.48                 | 345.71                  | 86.78                     | 4.984             | 0                        |                              |  |
| 13,400.00                    | 7,277.00              | 13,240.50             | 7,094.00              | 46.87            | 46.80         | -64.67                | 432.48                 | 344.45                  | 88.03                     | 4.913             | 0                        |                              |  |
| 13,500.00                    | 7,277.00              | 13,340.50             | 7,094.00              | 47.55            | 47.48         | -64.67                | 432.48                 | 343.20                  | 89.28                     | 4.844             | 0                        |                              |  |
| 13,600.00                    | 7,277.00              | 13,440.50             | 7,094.00              | 48.23            | 48.16         | -64.67                | 432.48                 | 341.95                  | 90.53                     | 4.777             | 0                        |                              |  |
| 13,700.00                    | 7,277.00              | 13,540.50             | 7,094.00              | 48.91            | 48.84         | -64.67                | 432.48                 | 340.69                  | 91.79                     | 4.712             | 0                        |                              |  |
| 13,800.00                    | 7,277.00              | 13,640.50             | 7,094.00              | 49.59            | 49.52         | -64.67                | 432.48                 | 339.43                  | 93.05                     | 4.648             | 0                        |                              |  |
| 13,900.00                    | 7,277.00              | 13,740.50             | 7,094.00              | 50.27            | 50.20         | -64.67                | 432.48                 | 338.18                  | 94.31                     | 4.586             | 0                        |                              |  |
| 14,000.00                    | 7,277.00              | 13,840.50             | 7,094.00              | 50.95            | 50.88         | -64.67                | 432.48                 | 336.92                  | 95.56                     | 4.526             | 0                        |                              |  |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 14,100.00                    | 7,277.00              | 13,940.50             | 7,094.00              | 51.63            | 51.56         | -64.67                | 432.48                 | 335.66                  | 96.82                     | 4.467             | 0                        |                          |                    |           |
| 14,200.00                    | 7,277.00              | 14,040.50             | 7,094.00              | 52.31            | 52.24         | -64.67                | 432.48                 | 334.40                  | 98.09                     | 4.409             | 0                        |                          |                    |           |
| 14,300.00                    | 7,277.00              | 14,140.50             | 7,094.00              | 53.00            | 52.93         | -64.67                | 432.48                 | 333.13                  | 99.35                     | 4.353             | 0                        |                          |                    |           |
| 14,400.00                    | 7,277.00              | 14,240.50             | 7,094.00              | 53.68            | 53.61         | -64.67                | 432.48                 | 331.87                  | 100.61                    | 4.299             | 0                        |                          |                    |           |
| 14,500.00                    | 7,277.00              | 14,340.50             | 7,094.00              | 54.36            | 54.29         | -64.67                | 432.48                 | 330.61                  | 101.88                    | 4.245             | 0                        |                          |                    |           |
| 14,600.00                    | 7,277.00              | 14,440.50             | 7,094.00              | 55.05            | 54.98         | -64.67                | 432.48                 | 329.34                  | 103.14                    | 4.193             | 0                        |                          |                    |           |
| 14,700.00                    | 7,277.00              | 14,540.50             | 7,094.00              | 55.73            | 55.66         | -64.67                | 432.48                 | 328.07                  | 104.41                    | 4.142             | 0                        |                          |                    |           |
| 14,800.00                    | 7,277.00              | 14,640.50             | 7,094.00              | 56.42            | 56.35         | -64.67                | 432.48                 | 326.81                  | 105.67                    | 4.093             | 0                        |                          |                    |           |
| 14,900.00                    | 7,277.00              | 14,740.50             | 7,094.00              | 57.11            | 57.03         | -64.67                | 432.48                 | 325.54                  | 106.94                    | 4.044             | 0                        |                          |                    |           |
| 15,000.00                    | 7,277.00              | 14,840.48             | 7,094.00              | 57.79            | 57.72         | -64.67                | 432.48                 | 324.27                  | 108.21                    | 3.997             | 0                        |                          |                    |           |
| 15,026.20                    | 7,277.00              | 14,866.68             | 7,094.00              | 57.97            | 57.90         | -64.67                | 432.48                 | 323.94                  | 108.54                    | 3.984             | 0                        |                          |                    |           |
| 15,048.84                    | 7,277.00              | 14,888.41             | 7,094.00              | 58.13            | 58.05         | -64.67                | 432.49                 | 323.66                  | 108.82                    | 3.974             | 0                        |                          | SF                 |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 0.00                         | 0.00                  | 1.00                  | 1.00                  | 0.00             | 0.00          | 0.18                  | 28.05                  |                         |                           |                   |                          |                          | CC<br>ES           |           |
| 100.00                       | 100.00                | 101.00                | 101.00                | 0.15             | 0.15          | 0.18                  | 28.05                  | 27.75                   | 0.29                      | 95.081            | 0                        |                          |                    |           |
| 200.00                       | 200.00                | 201.00                | 201.00                | 0.32             | 0.32          | 0.18                  | 28.05                  | 27.40                   | 0.64                      | 43.547            | 0                        |                          |                    |           |
| 300.00                       | 300.00                | 301.00                | 301.00                | 0.50             | 0.50          | 0.18                  | 28.05                  | 27.05                   | 0.99                      | 28.240            | 0                        |                          |                    |           |
| 400.00                       | 400.00                | 401.00                | 401.00                | 0.67             | 0.67          | 0.18                  | 28.05                  | 26.70                   | 1.34                      | 20.896            | 0                        |                          |                    |           |
| 500.00                       | 500.00                | 501.00                | 501.00                | 0.84             | 0.85          | 0.18                  | 28.05                  | 26.35                   | 1.69                      | 16.583            | 0                        |                          |                    |           |
| 600.00                       | 600.00                | 601.00                | 601.00                | 1.02             | 1.02          | 0.18                  | 28.05                  | 26.00                   | 2.04                      | 13.746            | 0                        |                          |                    |           |
| 700.00                       | 700.00                | 701.00                | 701.00                | 1.19             | 1.20          | 0.18                  | 28.05                  | 25.66                   | 2.39                      | 11.738            | 0                        |                          |                    |           |
| 766.33                       | 766.33                | 767.33                | 767.33                | 1.31             | 1.31          | 0.18                  | 28.05                  | 25.42                   | 2.62                      | 10.701            | 0                        |                          |                    |           |
| 800.00                       | 800.00                | 801.00                | 801.00                | 1.37             | 1.37          | 0.18                  | 28.05                  | 25.31                   | 2.74                      | 10.241            | 0                        |                          |                    |           |
| 900.00                       | 900.00                | 900.55                | 900.53                | 1.54             | 1.54          | -3.00                 | 28.83                  | 25.74                   | 3.09                      | 9.339             | 0                        |                          |                    |           |
| 1,000.00                     | 999.98                | 1,000.00              | 999.84                | 1.72             | 1.72          | 59.19                 | 30.69                  | 27.26                   | 3.44                      | 8.930             | 0                        |                          |                    |           |
| 1,100.00                     | 1,099.84              | 1,099.25              | 1,098.71              | 1.89             | 1.89          | 54.38                 | 32.94                  | 29.16                   | 3.79                      | 8.699             | 0                        |                          |                    |           |
| 1,200.00                     | 1,199.45              | 1,198.80              | 1,197.56              | 2.07             | 2.07          | 50.84                 | 35.26                  | 31.12                   | 4.14                      | 8.521             | 0                        |                          |                    |           |
| 1,239.63                     | 1,238.83              | 1,238.42              | 1,236.88              | 2.14             | 2.14          | 50.51                 | 35.72                  | 31.45                   | 4.28                      | 8.353             | 0                        |                          |                    |           |
| 1,300.00                     | 1,298.78              | 1,298.79              | 1,296.80              | 2.25             | 2.25          | 50.54                 | 36.17                  | 31.68                   | 4.49                      | 8.052             | 0                        |                          |                    |           |
| 1,400.00                     | 1,398.08              | 1,398.79              | 1,396.04              | 2.43             | 2.43          | 50.59                 | 36.91                  | 32.06                   | 4.85                      | 7.612             | 0                        |                          |                    |           |
| 1,500.00                     | 1,497.38              | 1,498.79              | 1,495.28              | 2.61             | 2.61          | 50.64                 | 37.64                  | 32.44                   | 5.21                      | 7.230             | 0                        |                          |                    |           |
| 1,600.00                     | 1,596.68              | 1,598.79              | 1,594.52              | 2.79             | 2.80          | 50.68                 | 38.38                  | 32.82                   | 5.57                      | 6.896             | 0                        |                          |                    |           |
| 1,700.00                     | 1,695.97              | 1,698.78              | 1,693.76              | 2.97             | 2.98          | 50.73                 | 39.12                  | 33.19                   | 5.93                      | 6.602             | 0                        |                          |                    |           |
| 1,800.00                     | 1,795.27              | 1,798.78              | 1,793.00              | 3.15             | 3.16          | 50.77                 | 39.86                  | 33.57                   | 6.29                      | 6.341             | 0                        |                          |                    |           |
| 1,900.00                     | 1,894.57              | 1,898.78              | 1,892.24              | 3.33             | 3.35          | 50.81                 | 40.59                  | 33.95                   | 6.65                      | 6.108             | 0                        |                          |                    |           |
| 2,000.00                     | 1,993.87              | 1,998.78              | 1,991.48              | 3.52             | 3.53          | 50.85                 | 41.33                  | 34.33                   | 7.01                      | 5.898             | 0                        |                          |                    |           |
| 2,100.00                     | 2,093.17              | 2,098.77              | 2,090.72              | 3.70             | 3.71          | 50.89                 | 42.07                  | 34.70                   | 7.37                      | 5.709             | 0                        |                          |                    |           |
| 2,200.00                     | 2,192.46              | 2,198.77              | 2,189.96              | 3.88             | 3.90          | 50.92                 | 42.81                  | 35.08                   | 7.73                      | 5.538             | 0                        |                          |                    |           |
| 2,300.00                     | 2,291.76              | 2,298.77              | 2,289.20              | 4.06             | 4.08          | 50.96                 | 43.55                  | 35.45                   | 8.09                      | 5.381             | 0                        |                          |                    |           |
| 2,400.00                     | 2,391.06              | 2,398.76              | 2,388.44              | 4.25             | 4.27          | 50.99                 | 44.28                  | 35.83                   | 8.45                      | 5.238             | 0                        |                          |                    |           |
| 2,500.00                     | 2,490.36              | 2,498.76              | 2,487.68              | 4.43             | 4.45          | 51.02                 | 45.02                  | 36.20                   | 8.82                      | 5.106             | 0                        |                          |                    |           |
| 2,600.00                     | 2,589.66              | 2,598.76              | 2,586.92              | 4.62             | 4.63          | 51.06                 | 45.76                  | 36.58                   | 9.18                      | 4.985             | 0                        |                          |                    |           |
| 2,700.00                     | 2,688.95              | 2,698.76              | 2,686.16              | 4.80             | 4.82          | 51.09                 | 46.50                  | 36.95                   | 9.54                      | 4.873             | 0                        |                          |                    |           |
| 2,800.00                     | 2,788.25              | 2,798.75              | 2,785.40              | 4.98             | 5.00          | 51.12                 | 47.23                  | 37.33                   | 9.91                      | 4.768             | 0                        |                          |                    |           |
| 2,900.00                     | 2,887.55              | 2,898.75              | 2,884.64              | 5.17             | 5.19          | 51.15                 | 47.97                  | 37.70                   | 10.27                     | 4.672             | 0                        |                          |                    |           |
| 3,000.00                     | 2,986.85              | 2,998.75              | 2,983.88              | 5.35             | 5.37          | 51.17                 | 48.71                  | 38.08                   | 10.63                     | 4.582             | 0                        |                          |                    |           |
| 3,100.00                     | 3,086.15              | 3,098.75              | 3,083.12              | 5.54             | 5.56          | 51.20                 | 49.45                  | 38.45                   | 11.00                     | 4.497             | 0                        |                          |                    |           |
| 3,200.00                     | 3,185.44              | 3,198.74              | 3,182.36              | 5.72             | 5.74          | 51.23                 | 50.19                  | 38.83                   | 11.36                     | 4.418             | 0                        |                          |                    |           |
| 3,300.00                     | 3,284.74              | 3,298.74              | 3,281.60              | 5.90             | 5.93          | 51.25                 | 50.92                  | 39.20                   | 11.72                     | 4.344             | 0                        |                          |                    |           |
| 3,400.00                     | 3,384.04              | 3,398.74              | 3,380.84              | 6.09             | 6.12          | 51.28                 | 51.66                  | 39.58                   | 12.09                     | 4.275             | 0                        |                          |                    |           |
| 3,500.00                     | 3,483.34              | 3,498.73              | 3,480.08              | 6.27             | 6.30          | 51.30                 | 52.40                  | 39.95                   | 12.45                     | 4.209             | 0                        |                          |                    |           |
| 3,600.00                     | 3,582.64              | 3,598.73              | 3,579.32              | 6.46             | 6.49          | 51.33                 | 53.14                  | 40.32                   | 12.81                     | 4.147             | 0                        |                          |                    |           |
| 3,700.00                     | 3,681.94              | 3,698.73              | 3,678.56              | 6.64             | 6.67          | 51.35                 | 53.88                  | 40.70                   | 13.18                     | 4.089             | 0                        |                          |                    |           |
| 3,800.00                     | 3,781.23              | 3,798.73              | 3,777.80              | 6.83             | 6.86          | 51.37                 | 54.61                  | 41.07                   | 13.54                     | 4.033             | 0                        |                          |                    |           |
| 3,900.00                     | 3,880.53              | 3,898.72              | 3,877.04              | 7.01             | 7.04          | 51.39                 | 55.35                  | 41.45                   | 13.90                     | 3.981             | 0                        |                          |                    |           |
| 4,000.00                     | 3,979.83              | 3,998.72              | 3,976.28              | 7.20             | 7.23          | 51.42                 | 56.09                  | 41.82                   | 14.27                     | 3.931             | 0                        |                          |                    |           |
| 4,100.00                     | 4,079.13              | 4,098.72              | 4,075.52              | 7.38             | 7.41          | 51.44                 | 56.83                  | 42.19                   | 14.63                     | 3.884             | 0                        |                          |                    |           |
| 4,200.00                     | 4,178.43              | 4,198.72              | 4,174.76              | 7.56             | 7.60          | 51.46                 | 57.57                  | 42.57                   | 15.00                     | 3.839             | 0                        |                          |                    |           |
| 4,300.00                     | 4,277.72              | 4,298.71              | 4,274.00              | 7.75             | 7.78          | 51.48                 | 58.30                  | 42.94                   | 15.36                     | 3.796             | 0                        |                          |                    |           |
| 4,400.00                     | 4,377.02              | 4,398.71              | 4,373.24              | 7.93             | 7.97          | 51.50                 | 59.04                  | 43.32                   | 15.73                     | 3.755             | 0                        |                          |                    |           |
| 4,500.00                     | 4,476.32              | 4,498.71              | 4,472.48              | 8.12             | 8.16          | 51.51                 | 59.78                  | 43.69                   | 16.09                     | 3.715             | 0                        |                          |                    |           |
| 4,600.00                     | 4,575.62              | 4,598.70              | 4,571.72              | 8.30             | 8.34          | 51.53                 | 60.52                  | 44.06                   | 16.45                     | 3.678             | 0                        |                          |                    |           |
| 4,700.00                     | 4,674.92              | 4,698.70              | 4,670.96              | 8.49             | 8.53          | 51.55                 | 61.26                  | 44.44                   | 16.82                     | 3.642             | 0                        |                          |                    |           |
| 4,800.00                     | 4,774.21              | 4,798.70              | 4,770.20              | 8.67             | 8.71          | 51.57                 | 61.99                  | 44.81                   | 17.18                     | 3.608             | 0                        |                          |                    |           |
| 4,900.00                     | 4,873.51              | 4,898.70              | 4,869.44              | 8.86             | 8.90          | 51.58                 | 62.73                  | 45.19                   | 17.55                     | 3.575             | 0                        |                          |                    |           |
| 5,000.00                     | 4,972.81              | 4,998.69              | 4,968.68              | 9.04             | 9.08          | 51.60                 | 63.47                  | 45.56                   | 17.91                     | 3.544             | 0                        |                          |                    |           |
| 5,100.00                     | 5,072.11              | 5,098.69              | 5,067.92              | 9.23             | 9.27          | 51.62                 | 64.21                  | 45.93                   | 18.28                     | 3.513             | 0                        |                          |                    |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #3 - Original Hole - Rev 0 |  | Offset Site Error: |  | 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|--------------------|--|-----------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                    |  |           |  |
| 5,200.00                     | 5,171.41              | 5,198.69              | 5,167.16              | 9.41             | 9.46          | 51.63                 | 64.95                  | 46.31                   | 18.64                     | 3.484             | 0                        |                          |   |  |                    |  |           |  |
| 5,300.00                     | 5,270.70              | 5,298.69              | 5,266.40              | 9.60             | 9.64          | 51.65                 | 65.68                  | 46.68                   | 19.00                     | 3.456             | 0                        |                          |   |  |                    |  |           |  |
| 5,400.00                     | 5,370.00              | 5,398.68              | 5,365.64              | 9.78             | 9.83          | 51.66                 | 66.42                  | 47.05                   | 19.37                     | 3.429             | 0                        |                          |   |  |                    |  |           |  |
| 5,500.00                     | 5,469.30              | 5,498.68              | 5,464.88              | 9.97             | 10.01         | 51.68                 | 67.16                  | 47.43                   | 19.73                     | 3.403             | 0                        |                          |   |  |                    |  |           |  |
| 5,600.00                     | 5,568.60              | 5,598.68              | 5,564.12              | 10.15            | 10.20         | 51.69                 | 67.90                  | 47.80                   | 20.10                     | 3.378             | 0                        |                          |   |  |                    |  |           |  |
| 5,700.00                     | 5,667.90              | 5,698.67              | 5,663.36              | 10.34            | 10.39         | 51.71                 | 68.64                  | 48.17                   | 20.46                     | 3.354             | 0                        |                          |   |  |                    |  |           |  |
| 5,800.00                     | 5,767.20              | 5,798.67              | 5,762.60              | 10.52            | 10.57         | 51.72                 | 69.37                  | 48.55                   | 20.83                     | 3.331             | 0                        |                          |   |  |                    |  |           |  |
| 5,900.00                     | 5,866.49              | 5,898.67              | 5,861.84              | 10.71            | 10.76         | 51.73                 | 70.11                  | 48.92                   | 21.19                     | 3.309             | 0                        |                          |   |  |                    |  |           |  |
| 6,000.00                     | 5,965.79              | 5,998.67              | 5,961.08              | 10.89            | 10.94         | 51.75                 | 70.85                  | 49.29                   | 21.56                     | 3.287             | 0                        |                          |   |  |                    |  |           |  |
| 6,100.00                     | 6,065.09              | 6,099.58              | 6,061.29              | 11.08            | 11.13         | 52.09                 | 71.23                  | 49.31                   | 21.92                     | 3.249             | 0                        |                          |   |  |                    |  |           |  |
| 6,200.00                     | 6,164.39              | 6,201.11              | 6,162.45              | 11.26            | 11.31         | 54.47                 | 69.60                  | 47.29                   | 22.31                     | 3.119             | 0                        |                          |   |  |                    |  |           |  |
| 6,237.42                     | 6,201.55              | 6,239.03              | 6,200.30              | 11.33            | 11.37         | 56.00                 | 68.47                  | 46.01                   | 22.46                     | 3.048             | 0                        |                          |   |  |                    |  |           |  |
| 6,300.00                     | 6,263.76              | 6,302.34              | 6,263.55              | 11.45            | 11.48         | 58.92                 | 66.43                  | 43.71                   | 22.72                     | 2.924             | 0                        |                          |   |  |                    |  |           |  |
| 6,400.00                     | 6,363.44              | 6,403.25              | 6,364.44              | 11.62            | 11.65         | 63.91                 | 63.42                  | 40.30                   | 23.12                     | 2.743             | 0                        |                          |   |  |                    |  |           |  |
| 6,500.00                     | 6,463.34              | 6,503.15              | 6,464.34              | 11.79            | 11.82         | 67.62                 | 61.60                  | 38.11                   | 23.49                     | 2.622             | 0                        |                          |   |  |                    |  |           |  |
| 6,546.28                     | 6,509.61              | 6,549.26              | 6,510.39              | 11.87            | 11.89         | 70.39                 | 61.33                  | 37.66                   | 23.67                     | 2.591             | 0                        | SF                       |   |  |                    |  |           |  |
| 6,577.05                     | 6,540.38              | 6,579.63              | 6,540.58              | 11.92            | 11.93         | 5.65                  | 61.51                  | 38.36                   | 23.15                     | 2.657             | 0                        |                          |   |  |                    |  |           |  |
| 6,600.00                     | 6,563.33              | 6,602.06              | 6,562.76              | 11.96            | 11.97         | 8.71                  | 61.94                  | 38.74                   | 23.20                     | 2.670             | 0                        |                          |   |  |                    |  |           |  |
| 6,677.05                     | 6,640.38              | 6,675.15              | 6,633.99              | 12.09            | 12.06         | 22.68                 | 66.75                  | 43.34                   | 23.41                     | 2.852             | 0                        |                          |   |  |                    |  |           |  |
| 6,700.00                     | 6,663.33              | 6,696.23              | 6,654.14              | 12.13            | 12.09         | -62.63                | 69.52                  | 45.26                   | 24.26                     | 2.866             | 0                        |                          |   |  |                    |  |           |  |
| 6,750.00                     | 6,713.17              | 6,741.52              | 6,696.69              | 12.20            | 12.15         | -53.79                | 76.88                  | 52.55                   | 24.33                     | 3.160             | 0                        |                          |   |  |                    |  |           |  |
| 6,800.00                     | 6,762.57              | 6,786.04              | 6,737.32              | 12.28            | 12.20         | -46.72                | 85.49                  | 61.20                   | 24.29                     | 3.519             | 0                        |                          |   |  |                    |  |           |  |
| 6,850.00                     | 6,811.21              | 6,829.85              | 6,775.97              | 12.34            | 12.25         | -41.12                | 94.82                  | 70.67                   | 24.15                     | 3.926             | 0                        |                          |   |  |                    |  |           |  |
| 6,900.00                     | 6,858.80              | 6,873.00              | 6,812.57              | 12.41            | 12.29         | -36.68                | 104.46                 | 80.55                   | 23.91                     | 4.369             | 0                        |                          |   |  |                    |  |           |  |
| 6,950.00                     | 6,905.04              | 6,915.57              | 6,847.08              | 12.47            | 12.34         | -33.13                | 114.13                 | 90.56                   | 23.58                     | 4.841             | 0                        |                          |   |  |                    |  |           |  |
| 7,000.00                     | 6,949.66              | 6,957.59              | 6,879.43              | 12.52            | 12.38         | -30.26                | 123.64                 | 100.47                  | 23.17                     | 5.336             | 0                        |                          |   |  |                    |  |           |  |
| 7,050.00                     | 6,992.36              | 7,000.00              | 6,910.22              | 12.58            | 12.43         | -27.90                | 132.84                 | 110.14                  | 22.70                     | 5.852             | 0                        |                          |   |  |                    |  |           |  |
| 7,100.00                     | 7,032.90              | 7,040.23              | 6,937.58              | 12.63            | 12.48         | -26.02                | 141.61                 | 119.43                  | 22.18                     | 6.384             | 0                        |                          |   |  |                    |  |           |  |
| 7,150.00                     | 7,071.01              | 7,080.94              | 6,963.30              | 12.69            | 12.52         | -24.44                | 149.86                 | 128.23                  | 21.63                     | 6.929             | 0                        |                          |   |  |                    |  |           |  |
| 7,200.00                     | 7,106.47              | 7,121.29              | 6,986.76              | 12.74            | 12.57         | -23.13                | 157.53                 | 136.48                  | 21.06                     | 7.482             | 0                        |                          |   |  |                    |  |           |  |
| 7,250.00                     | 7,139.06              | 7,161.33              | 7,007.95              | 12.80            | 12.62         | -22.04                | 164.57                 | 144.08                  | 20.48                     | 8.034             | 0                        |                          |   |  |                    |  |           |  |
| 7,300.00                     | 7,168.57              | 7,200.00              | 7,026.33              | 12.86            | 12.67         | -21.16                | 170.92                 | 150.99                  | 19.93                     | 8.577             | 0                        |                          |   |  |                    |  |           |  |
| 7,350.00                     | 7,194.82              | 7,240.64              | 7,043.39              | 12.93            | 12.73         | -20.40                | 176.54                 | 157.12                  | 19.42                     | 9.091             | 0                        |                          |   |  |                    |  |           |  |
| 7,400.00                     | 7,217.66              | 7,279.98              | 7,057.63              | 13.00            | 12.79         | -19.80                | 181.42                 | 162.45                  | 18.97                     | 9.562             | 0                        |                          |   |  |                    |  |           |  |
| 7,450.00                     | 7,236.94              | 7,319.14              | 7,069.54              | 13.07            | 12.85         | -19.32                | 185.52                 | 166.91                  | 18.61                     | 9.970             | 0                        |                          |   |  |                    |  |           |  |
| 7,500.00                     | 7,252.54              | 7,358.17              | 7,079.10              | 13.15            | 12.92         | -18.95                | 188.82                 | 170.47                  | 18.35                     | 10.291            | 0                        |                          |   |  |                    |  |           |  |
| 7,550.00                     | 7,264.36              | 7,400.00              | 7,086.75              | 13.25            | 13.01         | -18.66                | 191.34                 | 173.12                  | 18.22                     | 10.503            | 0                        |                          |   |  |                    |  |           |  |
| 7,600.00                     | 7,272.34              | 7,435.94              | 7,091.15              | 13.36            | 13.10         | -18.50                | 192.98                 | 174.78                  | 18.20                     | 10.604            | 0                        |                          |   |  |                    |  |           |  |
| 7,650.00                     | 7,276.43              | 7,474.75              | 7,093.64              | 13.49            | 13.20         | -18.41                | 193.81                 | 175.49                  | 18.32                     | 10.577            | 0                        |                          |   |  |                    |  |           |  |
| 7,677.05                     | 7,277.00              | 7,496.19              | 7,094.00              | 13.55            | 13.25         | -18.40                | 193.91                 | 175.46                  | 18.45                     | 10.510            | 0                        |                          |   |  |                    |  |           |  |
| 7,684.90                     | 7,277.00              | 7,503.45              | 7,094.00              | 13.58            | 13.27         | -18.40                | 193.91                 | 175.42                  | 18.50                     | 10.484            | 0                        |                          |   |  |                    |  |           |  |
| 7,700.00                     | 7,277.00              | 7,518.55              | 7,094.00              | 13.62            | 13.31         | -18.40                | 193.91                 | 175.32                  | 18.59                     | 10.431            | 0                        |                          |   |  |                    |  |           |  |
| 7,800.00                     | 7,277.00              | 7,618.55              | 7,094.00              | 13.90            | 13.60         | -18.40                | 193.91                 | 174.70                  | 19.21                     | 10.093            | 0                        |                          |   |  |                    |  |           |  |
| 7,900.00                     | 7,277.00              | 7,718.55              | 7,094.00              | 14.20            | 13.91         | -18.40                | 193.91                 | 174.07                  | 19.84                     | 9.773             | 0                        |                          |   |  |                    |  |           |  |
| 8,000.00                     | 7,277.00              | 7,818.55              | 7,094.00              | 14.54            | 14.25         | -18.40                | 193.91                 | 173.43                  | 20.48                     | 9.469             | 0                        |                          |   |  |                    |  |           |  |
| 8,100.00                     | 7,277.00              | 7,918.55              | 7,094.00              | 14.90            | 14.61         | -18.40                | 193.91                 | 172.79                  | 21.12                     | 9.180             | 0                        |                          |   |  |                    |  |           |  |
| 8,200.00                     | 7,277.00              | 8,018.55              | 7,094.00              | 15.28            | 15.00         | -18.40                | 193.91                 | 172.14                  | 21.78                     | 8.905             | 0                        |                          |   |  |                    |  |           |  |
| 8,300.00                     | 7,277.00              | 8,118.55              | 7,094.00              | 15.69            | 15.41         | -18.40                | 193.91                 | 171.48                  | 22.43                     | 8.644             | 0                        |                          |   |  |                    |  |           |  |
| 8,400.00                     | 7,277.00              | 8,218.55              | 7,094.00              | 16.11            | 15.84         | -18.40                | 193.91                 | 170.82                  | 23.09                     | 8.397             | 0                        |                          |   |  |                    |  |           |  |
| 8,500.00                     | 7,277.00              | 8,318.55              | 7,094.00              | 16.56            | 16.28         | -18.40                | 193.91                 | 170.15                  | 23.76                     | 8.161             | 0                        |                          |   |  |                    |  |           |  |
| 8,600.00                     | 7,277.00              | 8,418.55              | 7,094.00              | 17.02            | 16.75         | -18.40                | 193.91                 | 169.48                  | 24.43                     | 7.937             | 0                        |                          |   |  |                    |  |           |  |
| 8,700.00                     | 7,277.00              | 8,518.55              | 7,094.00              | 17.49            | 17.23         | -18.40                | 193.91                 | 168.81                  | 25.11                     | 7.723             | 0                        |                          |   |  |                    |  |           |  |
| 8,800.00                     | 7,277.00              | 8,618.55              | 7,094.00              | 17.99            | 17.73         | -18.40                | 193.91                 | 168.13                  | 25.79                     | 7.520             | 0                        |                          |   |  |                    |  |           |  |
| 8,900.00                     | 7,277.00              | 8,718.55              | 7,094.00              | 18.49            | 18.24         | -18.40                | 193.91                 | 167.44                  | 26.47                     | 7.326             | 0                        |                          |   |  |                    |  |           |  |

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





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 9,000.00                     | 7,277.00              | 8,818.55              | 7,094.00              | 19.01            | 18.76         | -18.40                | 193.91                 | 166.76                  | 27.16                     | 7.141             | 0                        |                          |                    |           |
| 9,100.00                     | 7,277.00              | 8,918.55              | 7,094.00              | 19.54            | 19.30         | -18.40                | 193.91                 | 166.07                  | 27.85                     | 6.964             | 0                        |                          |                    |           |
| 9,200.00                     | 7,277.00              | 9,018.55              | 7,094.00              | 20.08            | 19.84         | -18.40                | 193.91                 | 165.38                  | 28.54                     | 6.795             | 0                        |                          |                    |           |
| 9,300.00                     | 7,277.00              | 9,118.55              | 7,094.00              | 20.63            | 20.39         | -18.40                | 193.91                 | 164.68                  | 29.23                     | 6.634             | 0                        |                          |                    |           |
| 9,400.00                     | 7,277.00              | 9,218.55              | 7,094.00              | 21.19            | 20.96         | -18.40                | 193.91                 | 163.99                  | 29.93                     | 6.479             | 0                        |                          |                    |           |
| 9,500.00                     | 7,277.00              | 9,318.55              | 7,094.00              | 21.76            | 21.53         | -18.40                | 193.91                 | 163.29                  | 30.63                     | 6.331             | 0                        |                          |                    |           |
| 9,600.00                     | 7,277.00              | 9,418.55              | 7,094.00              | 22.34            | 22.11         | -18.40                | 193.91                 | 162.59                  | 31.33                     | 6.190             | 0                        |                          |                    |           |
| 9,700.00                     | 7,277.00              | 9,518.55              | 7,094.00              | 22.92            | 22.69         | -18.40                | 193.91                 | 161.88                  | 32.03                     | 6.054             | 0                        |                          |                    |           |
| 9,800.00                     | 7,277.00              | 9,618.55              | 7,094.00              | 23.51            | 23.29         | -18.40                | 193.91                 | 161.18                  | 32.74                     | 5.923             | 0                        |                          |                    |           |
| 9,900.00                     | 7,277.00              | 9,718.55              | 7,094.00              | 24.10            | 23.89         | -18.40                | 193.91                 | 160.47                  | 33.44                     | 5.798             | 0                        |                          |                    |           |
| 10,000.00                    | 7,277.00              | 9,818.55              | 7,094.00              | 24.71            | 24.49         | -18.40                | 193.91                 | 159.76                  | 34.15                     | 5.678             | 0                        |                          |                    |           |
| 10,100.00                    | 7,277.00              | 9,918.55              | 7,094.00              | 25.31            | 25.10         | -18.40                | 193.91                 | 159.05                  | 34.86                     | 5.562             | 0                        |                          |                    |           |
| 10,200.00                    | 7,277.00              | 10,018.55             | 7,094.00              | 25.92            | 25.71         | -18.40                | 193.91                 | 158.34                  | 35.57                     | 5.451             | 0                        |                          |                    |           |
| 10,300.00                    | 7,277.00              | 10,118.55             | 7,094.00              | 26.54            | 26.33         | -18.40                | 193.91                 | 157.63                  | 36.28                     | 5.344             | 0                        |                          |                    |           |
| 10,400.00                    | 7,277.00              | 10,218.55             | 7,094.00              | 27.16            | 26.96         | -18.40                | 193.91                 | 156.92                  | 37.00                     | 5.241             | 0                        |                          |                    |           |
| 10,500.00                    | 7,277.00              | 10,318.55             | 7,094.00              | 27.78            | 27.58         | -18.40                | 193.91                 | 156.20                  | 37.71                     | 5.142             | 0                        |                          |                    |           |
| 10,600.00                    | 7,277.00              | 10,418.55             | 7,094.00              | 28.41            | 28.21         | -18.40                | 193.91                 | 155.48                  | 38.43                     | 5.046             | 0                        |                          |                    |           |
| 10,700.00                    | 7,277.00              | 10,518.55             | 7,094.00              | 29.04            | 28.85         | -18.40                | 193.91                 | 154.77                  | 39.15                     | 4.954             | 0                        |                          |                    |           |
| 10,800.00                    | 7,277.00              | 10,618.55             | 7,094.00              | 29.68            | 29.48         | -18.40                | 193.91                 | 154.05                  | 39.86                     | 4.864             | 0                        |                          |                    |           |
| 10,900.00                    | 7,277.00              | 10,718.55             | 7,094.00              | 30.32            | 30.12         | -18.40                | 193.91                 | 153.33                  | 40.58                     | 4.778             | 0                        |                          |                    |           |
| 11,000.00                    | 7,277.00              | 10,818.55             | 7,094.00              | 30.96            | 30.77         | -18.40                | 193.91                 | 152.61                  | 41.30                     | 4.695             | 0                        |                          |                    |           |
| 11,100.00                    | 7,277.00              | 10,918.55             | 7,094.00              | 31.60            | 31.41         | -18.40                | 193.91                 | 151.89                  | 42.02                     | 4.614             | 0                        |                          |                    |           |
| 11,200.00                    | 7,277.00              | 11,018.55             | 7,094.00              | 32.25            | 32.06         | -18.40                | 193.91                 | 151.17                  | 42.74                     | 4.537             | 0                        |                          |                    |           |
| 11,300.00                    | 7,277.00              | 11,118.55             | 7,094.00              | 32.89            | 32.71         | -18.40                | 193.91                 | 150.45                  | 43.47                     | 4.461             | 0                        |                          |                    |           |
| 11,400.00                    | 7,277.00              | 11,218.55             | 7,094.00              | 33.54            | 33.36         | -18.40                | 193.91                 | 149.72                  | 44.19                     | 4.388             | 0                        |                          |                    |           |
| 11,500.00                    | 7,277.00              | 11,318.55             | 7,094.00              | 34.20            | 34.02         | -18.40                | 193.91                 | 149.00                  | 44.91                     | 4.317             | 0                        |                          |                    |           |
| 11,600.00                    | 7,277.00              | 11,418.55             | 7,094.00              | 34.85            | 34.67         | -18.40                | 193.91                 | 148.28                  | 45.64                     | 4.249             | 0                        |                          |                    |           |
| 11,700.00                    | 7,277.00              | 11,518.55             | 7,094.00              | 35.51            | 35.33         | -18.40                | 193.91                 | 147.55                  | 46.36                     | 4.183             | 0                        |                          |                    |           |
| 11,800.00                    | 7,277.00              | 11,618.55             | 7,094.00              | 36.16            | 35.99         | -18.40                | 193.91                 | 146.83                  | 47.09                     | 4.118             | 0                        |                          |                    |           |
| 11,900.00                    | 7,277.00              | 11,718.55             | 7,094.00              | 36.82            | 36.65         | -18.40                | 193.91                 | 146.10                  | 47.81                     | 4.056             | 0                        |                          |                    |           |
| 12,000.00                    | 7,277.00              | 11,818.55             | 7,094.00              | 37.49            | 37.31         | -18.40                | 193.91                 | 145.37                  | 48.54                     | 3.995             | 0                        |                          |                    |           |
| 12,100.00                    | 7,277.00              | 11,918.55             | 7,094.00              | 38.15            | 37.98         | -18.40                | 193.91                 | 144.65                  | 49.27                     | 3.936             | 0                        |                          |                    |           |
| 12,200.00                    | 7,277.00              | 12,018.55             | 7,094.00              | 38.81            | 38.64         | -18.40                | 193.91                 | 143.92                  | 50.00                     | 3.879             | 0                        |                          |                    |           |
| 12,300.00                    | 7,277.00              | 12,118.55             | 7,094.00              | 39.48            | 39.31         | -18.40                | 193.91                 | 143.19                  | 50.72                     | 3.823             | 0                        |                          |                    |           |
| 12,400.00                    | 7,277.00              | 12,218.55             | 7,094.00              | 40.15            | 39.98         | -18.40                | 193.91                 | 142.46                  | 51.45                     | 3.769             | 0                        |                          |                    |           |
| 12,500.00                    | 7,277.00              | 12,318.55             | 7,094.00              | 40.81            | 40.65         | -18.40                | 193.91                 | 141.73                  | 52.18                     | 3.716             | 0                        |                          |                    |           |
| 12,600.00                    | 7,277.00              | 12,418.55             | 7,094.00              | 41.48            | 41.32         | -18.40                | 193.91                 | 141.00                  | 52.91                     | 3.665             | 0                        |                          |                    |           |
| 12,700.00                    | 7,277.00              | 12,518.55             | 7,094.00              | 42.15            | 41.99         | -18.40                | 193.91                 | 140.27                  | 53.64                     | 3.615             | 0                        |                          |                    |           |
| 12,800.00                    | 7,277.00              | 12,618.55             | 7,094.00              | 42.82            | 42.66         | -18.40                | 193.91                 | 139.54                  | 54.37                     | 3.566             | 0                        |                          |                    |           |
| 12,900.00                    | 7,277.00              | 12,718.55             | 7,094.00              | 43.50            | 43.34         | -18.40                | 193.91                 | 138.81                  | 55.10                     | 3.519             | 0                        |                          |                    |           |
| 13,000.00                    | 7,277.00              | 12,818.55             | 7,094.00              | 44.17            | 44.01         | -18.40                | 193.91                 | 138.08                  | 55.83                     | 3.473             | 0                        |                          |                    |           |
| 13,100.00                    | 7,277.00              | 12,918.55             | 7,094.00              | 44.85            | 44.69         | -18.40                | 193.91                 | 137.35                  | 56.57                     | 3.428             | 0                        |                          |                    |           |
| 13,200.00                    | 7,277.00              | 13,018.55             | 7,094.00              | 45.52            | 45.36         | -18.40                | 193.91                 | 136.62                  | 57.30                     | 3.384             | 0                        |                          |                    |           |
| 13,300.00                    | 7,277.00              | 13,118.55             | 7,094.00              | 46.20            | 46.04         | -18.40                | 193.91                 | 135.89                  | 58.03                     | 3.342             | 0                        |                          |                    |           |
| 13,400.00                    | 7,277.00              | 13,218.55             | 7,094.00              | 46.87            | 46.72         | -18.40                | 193.91                 | 135.15                  | 58.76                     | 3.300             | 0                        |                          |                    |           |
| 13,500.00                    | 7,277.00              | 13,318.55             | 7,094.00              | 47.55            | 47.40         | -18.40                | 193.91                 | 134.42                  | 59.49                     | 3.259             | 0                        |                          |                    |           |
| 13,600.00                    | 7,277.00              | 13,418.55             | 7,094.00              | 48.23            | 48.08         | -18.40                | 193.91                 | 133.69                  | 60.23                     | 3.220             | 0                        |                          |                    |           |
| 13,700.00                    | 7,277.00              | 13,518.55             | 7,094.00              | 48.91            | 48.76         | -18.40                | 193.91                 | 132.95                  | 60.96                     | 3.181             | 0                        |                          |                    |           |
| 13,800.00                    | 7,277.00              | 13,618.55             | 7,094.00              | 49.59            | 49.44         | -18.40                | 193.91                 | 132.22                  | 61.69                     | 3.143             | 0                        |                          |                    |           |
| 13,900.00                    | 7,277.00              | 13,718.55             | 7,094.00              | 50.27            | 50.12         | -18.40                | 193.91                 | 131.49                  | 62.43                     | 3.106             | 0                        |                          |                    |           |
| 14,000.00                    | 7,277.00              | 13,818.55             | 7,094.00              | 50.95            | 50.80         | -18.40                | 193.91                 | 130.75                  | 63.16                     | 3.070             | 0                        |                          |                    |           |
| 14,100.00                    | 7,277.00              | 13,918.55             | 7,094.00              | 51.63            | 51.48         | -18.40                | 193.91                 | 130.02                  | 63.90                     | 3.035             | 0                        |                          |                    |           |
| 14,200.00                    | 7,277.00              | 14,018.55             | 7,094.00              | 52.31            | 52.17         | -18.40                | 193.91                 | 129.28                  | 64.63                     | 3.000             | 0                        |                          |                    |           |
| 14,300.00                    | 7,277.00              | 14,118.55             | 7,094.00              | 53.00            | 52.85         | -18.40                | 193.91                 | 128.55                  | 65.36                     | 2.967             | 0                        |                          |                    |           |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

|                              |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |                           |           |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| <b>Offset Design</b>         |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,400.00                    | 7,277.00              | 14,218.55             | 7,094.00              | 53.68            | 53.54         | -18.40                | 193.91                 | 127.81                  | 66.10                     | 2.934             | 0                        |                          |                           |           |
| 14,500.00                    | 7,277.00              | 14,318.55             | 7,094.00              | 54.36            | 54.22         | -18.40                | 193.91                 | 127.08                  | 66.83                     | 2.901             | 0                        |                          |                           |           |
| 14,600.00                    | 7,277.00              | 14,418.55             | 7,094.00              | 55.05            | 54.91         | -18.40                | 193.91                 | 126.34                  | 67.57                     | 2.870             | 0                        |                          |                           |           |
| 14,700.00                    | 7,277.00              | 14,518.55             | 7,094.00              | 55.73            | 55.59         | -18.40                | 193.91                 | 125.61                  | 68.30                     | 2.839             | 0                        |                          |                           |           |
| 14,800.00                    | 7,277.00              | 14,618.55             | 7,094.00              | 56.42            | 56.28         | -18.40                | 193.91                 | 124.87                  | 69.04                     | 2.809             | 0                        |                          |                           |           |
| 14,900.00                    | 7,277.00              | 14,718.55             | 7,094.00              | 57.11            | 56.96         | -18.40                | 193.91                 | 124.14                  | 69.78                     | 2.779             | 0                        |                          |                           |           |
| 14,952.01                    | 7,277.00              | 14,770.56             | 7,094.00              | 57.46            | 57.32         | -18.40                | 193.91                 | 123.76                  | 70.16                     | 2.764             | 0                        |                          |                           |           |
| 15,000.00                    | 7,277.00              | 14,818.55             | 7,094.00              | 57.79            | 57.65         | -18.40                | 193.91                 | 123.40                  | 70.51                     | 2.750             | 0                        |                          |                           |           |
| 15,026.66                    | 7,277.00              | 14,845.21             | 7,094.00              | 57.97            | 57.83         | -18.40                | 193.91                 | 123.21                  | 70.71                     | 2.742             | 0                        |                          |                           |           |
| 15,048.84                    | 7,277.00              | 14,867.11             | 7,094.00              | 58.13            | 57.98         | -18.40                | 193.91                 | 123.04                  | 70.87                     | 2.736             | 0                        |                          |                           |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |         |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|---------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision     | Warning |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.25               | 28.13                  |                         |                           |                   | 0                        |                              |         |
| 100.00                       | 100.00                | 98.00                 | 98.00                 | 0.15             | 0.14          | -179.25               | 28.06                  | 27.77                   | 0.29                      | 96.655            | 0                        |                              |         |
| 200.00                       | 200.00                | 198.00                | 198.00                | 0.32             | 0.32          | -179.25               | 28.06                  | 27.42                   | 0.64                      | 43.923            | 0                        |                              |         |
| 300.00                       | 300.00                | 298.00                | 298.00                | 0.50             | 0.49          | -179.25               | 28.06                  | 27.07                   | 0.99                      | 28.402            | 0                        |                              |         |
| 400.00                       | 400.00                | 398.00                | 398.00                | 0.67             | 0.67          | -179.25               | 28.06                  | 26.72                   | 1.34                      | 20.987            | 0                        |                              |         |
| 500.00                       | 500.00                | 498.00                | 498.00                | 0.84             | 0.84          | -179.25               | 28.06                  | 26.37                   | 1.69                      | 16.642            | 0                        |                              |         |
| 600.00                       | 600.00                | 598.00                | 598.00                | 1.02             | 1.02          | -179.25               | 28.06                  | 26.02                   | 2.04                      | 13.787            | 0                        |                              |         |
| 700.00                       | 700.00                | 698.00                | 698.00                | 1.19             | 1.19          | -179.25               | 28.06                  | 25.67                   | 2.38                      | 11.768            | 0                        |                              |         |
| 800.00                       | 800.00                | 798.00                | 798.00                | 1.37             | 1.36          | -179.25               | 28.06                  | 25.32                   | 2.73                      | 10.265            | 0                        |                              |         |
| 900.00                       | 900.00                | 898.00                | 898.00                | 1.54             | 1.54          | -179.25               | 28.06                  | 24.98                   | 3.08                      | 9.103             | 0                        |                              | CC, ES  |
| 1,000.00                     | 999.98                | 997.98                | 997.98                | 1.72             | 1.71          | -114.56               | 28.74                  | 25.31                   | 3.43                      | 8.375             | 0                        |                              |         |
| 1,100.00                     | 1,099.84              | 1,098.02              | 1,098.00              | 1.89             | 1.89          | -120.25               | 30.98                  | 27.20                   | 3.78                      | 8.192             | 0                        |                              |         |
| 1,200.00                     | 1,199.45              | 1,198.14              | 1,197.99              | 2.07             | 2.06          | -124.21               | 34.67                  | 30.54                   | 4.13                      | 8.391             | 0                        |                              |         |
| 1,239.63                     | 1,238.83              | 1,237.84              | 1,237.56              | 2.14             | 2.13          | -125.31               | 36.49                  | 32.22                   | 4.27                      | 8.547             | 0                        |                              |         |
| 1,300.00                     | 1,298.78              | 1,298.34              | 1,297.80              | 2.25             | 2.24          | -125.83               | 39.28                  | 34.79                   | 4.48                      | 8.760             | 0                        |                              |         |
| 1,400.00                     | 1,398.08              | 1,398.36              | 1,397.18              | 2.43             | 2.42          | -123.95               | 43.40                  | 38.56                   | 4.84                      | 8.968             | 0                        |                              |         |
| 1,500.00                     | 1,497.38              | 1,498.27              | 1,496.41              | 2.61             | 2.60          | -122.16               | 47.52                  | 42.33                   | 5.20                      | 9.144             | 0                        |                              |         |
| 1,600.00                     | 1,596.68              | 1,598.17              | 1,595.64              | 2.79             | 2.78          | -120.66               | 51.69                  | 46.13                   | 5.56                      | 9.303             | 0                        |                              |         |
| 1,700.00                     | 1,695.97              | 1,698.08              | 1,694.88              | 2.97             | 2.96          | -119.38               | 55.88                  | 49.97                   | 5.92                      | 9.446             | 0                        |                              |         |
| 1,800.00                     | 1,795.27              | 1,797.98              | 1,794.11              | 3.15             | 3.14          | -118.29               | 60.10                  | 53.82                   | 6.28                      | 9.574             | 0                        |                              |         |
| 1,900.00                     | 1,894.57              | 1,897.89              | 1,893.35              | 3.33             | 3.32          | -117.33               | 64.34                  | 57.70                   | 6.64                      | 9.689             | 0                        |                              |         |
| 2,000.00                     | 1,993.87              | 1,997.79              | 1,992.58              | 3.52             | 3.50          | -116.50               | 68.59                  | 61.59                   | 7.00                      | 9.794             | 0                        |                              |         |
| 2,100.00                     | 2,093.17              | 2,097.70              | 2,091.82              | 3.70             | 3.68          | -115.76               | 72.86                  | 65.49                   | 7.37                      | 9.889             | 0                        |                              |         |
| 2,200.00                     | 2,192.46              | 2,197.60              | 2,191.05              | 3.88             | 3.86          | -115.11               | 77.13                  | 69.40                   | 7.73                      | 9.976             | 0                        |                              |         |
| 2,300.00                     | 2,291.76              | 2,297.51              | 2,290.29              | 4.06             | 4.05          | -114.52               | 81.42                  | 73.32                   | 8.10                      | 10.056            | 0                        |                              |         |
| 2,400.00                     | 2,391.06              | 2,397.41              | 2,389.52              | 4.25             | 4.23          | -113.99               | 85.71                  | 77.25                   | 8.46                      | 10.129            | 0                        |                              |         |
| 2,500.00                     | 2,490.36              | 2,497.32              | 2,488.76              | 4.43             | 4.41          | -113.51               | 90.01                  | 81.18                   | 8.83                      | 10.197            | 0                        |                              |         |
| 2,600.00                     | 2,589.66              | 2,597.22              | 2,587.99              | 4.62             | 4.59          | -113.08               | 94.32                  | 85.12                   | 9.19                      | 10.259            | 0                        |                              |         |
| 2,700.00                     | 2,688.95              | 2,697.13              | 2,687.23              | 4.80             | 4.78          | -112.68               | 98.63                  | 89.07                   | 9.56                      | 10.317            | 0                        |                              |         |
| 2,800.00                     | 2,788.25              | 2,797.03              | 2,786.46              | 4.98             | 4.96          | -112.32               | 102.94                 | 93.01                   | 9.93                      | 10.371            | 0                        |                              |         |
| 2,900.00                     | 2,887.55              | 2,896.94              | 2,885.70              | 5.17             | 5.14          | -111.99               | 107.26                 | 96.97                   | 10.29                     | 10.421            | 0                        |                              |         |
| 3,000.00                     | 2,986.85              | 2,996.84              | 2,984.93              | 5.35             | 5.33          | -111.68               | 111.58                 | 100.92                  | 10.66                     | 10.468            | 0                        |                              |         |
| 3,100.00                     | 3,086.15              | 3,096.75              | 3,084.16              | 5.54             | 5.51          | -111.39               | 115.90                 | 104.88                  | 11.03                     | 10.512            | 0                        |                              |         |
| 3,200.00                     | 3,185.44              | 3,196.65              | 3,183.40              | 5.72             | 5.69          | -111.13               | 120.23                 | 108.84                  | 11.39                     | 10.553            | 0                        |                              |         |
| 3,300.00                     | 3,284.74              | 3,296.56              | 3,282.63              | 5.90             | 5.88          | -110.88               | 124.56                 | 112.80                  | 11.76                     | 10.592            | 0                        |                              |         |
| 3,400.00                     | 3,384.04              | 3,396.46              | 3,381.87              | 6.09             | 6.06          | -110.65               | 128.89                 | 116.76                  | 12.13                     | 10.628            | 0                        |                              |         |
| 3,500.00                     | 3,483.34              | 3,496.37              | 3,481.10              | 6.27             | 6.24          | -110.44               | 133.23                 | 120.73                  | 12.50                     | 10.662            | 0                        |                              |         |
| 3,600.00                     | 3,582.64              | 3,596.27              | 3,580.34              | 6.46             | 6.43          | -110.24               | 137.56                 | 124.70                  | 12.86                     | 10.695            | 0                        |                              |         |
| 3,700.00                     | 3,681.94              | 3,696.18              | 3,679.57              | 6.64             | 6.61          | -110.05               | 141.90                 | 128.67                  | 13.23                     | 10.725            | 0                        |                              |         |
| 3,800.00                     | 3,781.23              | 3,796.08              | 3,778.81              | 6.83             | 6.80          | -109.87               | 146.24                 | 132.64                  | 13.60                     | 10.754            | 0                        |                              |         |
| 3,900.00                     | 3,880.53              | 3,895.98              | 3,878.04              | 7.01             | 6.98          | -109.71               | 150.58                 | 136.61                  | 13.97                     | 10.782            | 0                        |                              |         |
| 4,000.00                     | 3,979.83              | 3,995.89              | 3,977.28              | 7.20             | 7.16          | -109.55               | 154.92                 | 140.58                  | 14.33                     | 10.808            | 0                        |                              |         |
| 4,100.00                     | 4,079.13              | 4,095.79              | 4,076.51              | 7.38             | 7.35          | -109.40               | 159.26                 | 144.56                  | 14.70                     | 10.833            | 0                        |                              |         |
| 4,200.00                     | 4,178.43              | 4,195.70              | 4,175.75              | 7.56             | 7.53          | -109.26               | 163.60                 | 148.53                  | 15.07                     | 10.856            | 0                        |                              |         |
| 4,300.00                     | 4,277.72              | 4,295.60              | 4,274.98              | 7.75             | 7.72          | -109.12               | 167.95                 | 152.51                  | 15.44                     | 10.879            | 0                        |                              |         |
| 4,400.00                     | 4,377.02              | 4,395.51              | 4,374.21              | 7.93             | 7.90          | -109.00               | 172.29                 | 156.49                  | 15.81                     | 10.900            | 0                        |                              |         |
| 4,500.00                     | 4,476.32              | 4,495.41              | 4,473.45              | 8.12             | 8.08          | -108.87               | 176.64                 | 160.46                  | 16.17                     | 10.921            | 0                        |                              |         |
| 4,600.00                     | 4,575.62              | 4,595.32              | 4,572.68              | 8.30             | 8.27          | -108.76               | 180.98                 | 164.44                  | 16.54                     | 10.941            | 0                        |                              |         |
| 4,700.00                     | 4,674.92              | 4,695.22              | 4,671.92              | 8.49             | 8.45          | -108.65               | 185.33                 | 168.42                  | 16.91                     | 10.959            | 0                        |                              |         |
| 4,800.00                     | 4,774.21              | 4,795.13              | 4,771.15              | 8.67             | 8.64          | -108.54               | 189.68                 | 172.40                  | 17.28                     | 10.977            | 0                        |                              |         |
| 4,900.00                     | 4,873.51              | 4,895.03              | 4,870.39              | 8.86             | 8.82          | -108.44               | 194.03                 | 176.38                  | 17.65                     | 10.995            | 0                        |                              |         |
| 5,000.00                     | 4,972.81              | 4,994.94              | 4,969.62              | 9.04             | 9.00          | -108.35               | 198.38                 | 180.36                  | 18.02                     | 11.011            | 0                        |                              |         |
| 5,100.00                     | 5,072.11              | 5,094.84              | 5,068.86              | 9.23             | 9.19          | -108.26               | 202.72                 | 184.34                  | 18.38                     | 11.027            | 0                        |                              |         |
| 5,200.00                     | 5,171.41              | 5,194.75              | 5,168.09              | 9.41             | 9.37          | -108.17               | 207.07                 | 188.32                  | 18.75                     | 11.042            | 0                        |                              |         |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #5 - Original Hole - Rev 0 | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |                    |           |
| 5,300.00                     | 5,270.70              | 5,294.65              | 5,267.33              | 9.60             | 9.56          | -108.08               | 211.43                 | 192.30                  | 19.12                     | 11.057            | 0                        |                          |   |                    |           |
| 5,400.00                     | 5,370.00              | 5,394.56              | 5,366.56              | 9.78             | 9.74          | -108.00               | 215.78                 | 196.29                  | 19.49                     | 11.071            | 0                        |                          |   |                    |           |
| 5,500.00                     | 5,469.30              | 5,494.46              | 5,465.80              | 9.97             | 9.93          | -107.93               | 220.13                 | 200.27                  | 19.86                     | 11.085            | 0                        |                          |   |                    |           |
| 5,600.00                     | 5,568.60              | 5,594.37              | 5,565.03              | 10.15            | 10.11         | -107.85               | 224.48                 | 204.25                  | 20.23                     | 11.098            | 0                        |                          |   |                    |           |
| 5,700.00                     | 5,667.90              | 5,694.27              | 5,664.26              | 10.34            | 10.29         | -107.78               | 228.83                 | 208.24                  | 20.60                     | 11.111            | 0                        |                          |   |                    |           |
| 5,800.00                     | 5,767.20              | 5,794.18              | 5,763.50              | 10.52            | 10.48         | -107.71               | 233.18                 | 212.22                  | 20.96                     | 11.123            | 0                        |                          |   |                    |           |
| 5,900.00                     | 5,866.49              | 5,894.08              | 5,862.73              | 10.71            | 10.66         | -107.64               | 237.54                 | 216.20                  | 21.33                     | 11.135            | 0                        |                          |   |                    |           |
| 6,000.00                     | 5,965.79              | 5,993.99              | 5,961.97              | 10.89            | 10.85         | -107.58               | 241.89                 | 220.19                  | 21.70                     | 11.146            | 0                        |                          |   |                    |           |
| 6,100.00                     | 6,065.09              | 6,094.09              | 6,061.43              | 11.08            | 11.03         | -107.57               | 246.23                 | 224.16                  | 22.07                     | 11.157            | 0                        |                          |   |                    |           |
| 6,200.00                     | 6,164.39              | 6,194.49              | 6,161.45              | 11.26            | 11.21         | -108.20               | 250.40                 | 227.97                  | 22.43                     | 11.164            | 0                        |                          |   |                    |           |
| 6,237.42                     | 6,201.55              | 6,232.01              | 6,198.89              | 11.33            | 11.27         | -108.63               | 251.93                 | 229.36                  | 22.56                     | 11.166            | 0                        |                          |   |                    |           |
| 6,300.00                     | 6,263.76              | 6,294.66              | 6,261.48              | 11.45            | 11.38         | -109.49               | 254.24                 | 231.46                  | 22.78                     | 11.159            | 0                        |                          |   |                    |           |
| 6,400.00                     | 6,363.44              | 6,394.64              | 6,361.44              | 11.62            | 11.55         | -110.84               | 257.02                 | 233.89                  | 23.13                     | 11.114            | 0                        |                          |   |                    |           |
| 6,500.00                     | 6,463.34              | 6,494.54              | 6,461.35              | 11.79            | 11.72         | -111.79               | 258.63                 | 235.17                  | 23.46                     | 11.024            | 0                        |                          |   |                    |           |
| 6,577.05                     | 6,540.38              | 6,571.18              | 6,537.77              | 11.92            | 11.84         | 178.94                | 259.06                 | 235.96                  | 23.10                     | 11.213            | 0                        |                          |   |                    |           |
| 6,600.00                     | 6,563.33              | 6,593.67              | 6,560.02              | 11.96            | 11.87         | 178.23                | 259.14                 | 235.96                  | 23.18                     | 11.177            | 0                        |                          |   |                    |           |
| 6,677.05                     | 6,640.38              | 6,667.00              | 6,631.56              | 12.09            | 11.97         | 174.71                | 260.21                 | 236.75                  | 23.46                     | 11.091            | 0                        |                          |   |                    |           |
| 6,700.00                     | 6,663.33              | 6,688.16              | 6,651.80              | 12.13            | 11.99         | 83.39                 | 260.88                 | 236.85                  | 24.03                     | 10.857            | 0                        |                          |   |                    |           |
| 6,750.00                     | 6,713.17              | 6,733.63              | 6,694.57              | 12.20            | 12.05         | 80.58                 | 262.82                 | 238.69                  | 24.13                     | 10.890            | 0                        |                          |   |                    |           |
| 6,800.00                     | 6,762.57              | 6,778.32              | 6,735.43              | 12.28            | 12.10         | 77.88                 | 265.33                 | 241.12                  | 24.22                     | 10.957            | 0                        |                          |   |                    |           |
| 6,850.00                     | 6,811.21              | 6,822.30              | 6,774.30              | 12.34            | 12.15         | 75.30                 | 268.34                 | 244.06                  | 24.28                     | 11.053            | 0                        |                          |   |                    |           |
| 6,900.00                     | 6,858.80              | 6,865.63              | 6,811.11              | 12.41            | 12.20         | 72.86                 | 271.75                 | 247.44                  | 24.31                     | 11.179            | 0                        |                          |   |                    |           |
| 6,950.00                     | 6,905.04              | 6,908.37              | 6,845.82              | 12.47            | 12.25         | 70.57                 | 275.47                 | 251.16                  | 24.31                     | 11.331            | 0                        |                          |   |                    |           |
| 7,000.00                     | 6,949.66              | 6,950.00              | 6,877.95              | 12.52            | 12.29         | 68.46                 | 279.40                 | 255.12                  | 24.28                     | 11.507            | 0                        |                          |   |                    |           |
| 7,050.00                     | 6,992.36              | 6,992.27              | 6,908.74              | 12.58            | 12.34         | 66.47                 | 283.45                 | 259.23                  | 24.22                     | 11.703            | 0                        |                          |   |                    |           |
| 7,100.00                     | 7,032.90              | 7,033.54              | 6,936.87              | 12.63            | 12.39         | 64.67                 | 287.53                 | 263.40                  | 24.13                     | 11.915            | 0                        |                          |   |                    |           |
| 7,150.00                     | 7,071.01              | 7,074.41              | 6,962.75              | 12.69            | 12.44         | 63.02                 | 291.56                 | 267.54                  | 24.02                     | 12.138            | 0                        |                          |   |                    |           |
| 7,200.00                     | 7,106.47              | 7,114.93              | 6,986.35              | 12.74            | 12.49         | 61.55                 | 295.46                 | 271.57                  | 23.89                     | 12.366            | 0                        |                          |   |                    |           |
| 7,250.00                     | 7,139.06              | 7,155.13              | 7,007.65              | 12.80            | 12.54         | 60.23                 | 299.17                 | 275.41                  | 23.76                     | 12.592            | 0                        |                          |   |                    |           |
| 7,300.00                     | 7,168.57              | 7,195.06              | 7,026.64              | 12.86            | 12.60         | 59.07                 | 302.62                 | 278.99                  | 23.63                     | 12.808            | 0                        |                          |   |                    |           |
| 7,350.00                     | 7,194.82              | 7,234.76              | 7,043.29              | 12.93            | 12.67         | 58.06                 | 305.76                 | 282.25                  | 23.51                     | 13.005            | 0                        |                          |   |                    |           |
| 7,400.00                     | 7,217.66              | 7,274.24              | 7,057.60              | 13.00            | 12.74         | 57.21                 | 308.54                 | 285.12                  | 23.42                     | 13.174            | 0                        |                          |   |                    |           |
| 7,450.00                     | 7,236.94              | 7,313.56              | 7,069.55              | 13.07            | 12.81         | 56.50                 | 310.92                 | 287.56                  | 23.36                     | 13.307            | 0                        |                          |   |                    |           |
| 7,500.00                     | 7,252.54              | 7,350.00              | 7,078.54              | 13.15            | 12.88         | 55.96                 | 312.89                 | 289.54                  | 23.35                     | 13.399            | 0                        |                          |   |                    |           |
| 7,550.00                     | 7,264.36              | 7,391.81              | 7,086.35              | 13.25            | 12.97         | 55.51                 | 314.37                 | 290.97                  | 23.40                     | 13.436            | 0                        |                          |   |                    |           |
| 7,600.00                     | 7,272.34              | 7,430.81              | 7,091.20              | 13.36            | 13.06         | 55.22                 | 315.38                 | 291.88                  | 23.50                     | 13.420            | 0                        |                          |   |                    |           |
| 7,650.00                     | 7,276.43              | 7,469.76              | 7,093.66              | 13.49            | 13.15         | 55.08                 | 315.91                 | 292.24                  | 23.67                     | 13.348            | 0                        |                          |   |                    |           |
| 7,677.05                     | 7,277.00              | 7,490.89              | 7,094.00              | 13.55            | 13.21         | 55.05                 | 315.99                 | 292.21                  | 23.78                     | 13.287            | 0                        |                          |   |                    |           |
| 7,700.00                     | 7,277.00              | 7,513.84              | 7,094.00              | 13.62            | 13.27         | 55.05                 | 315.99                 | 292.08                  | 23.91                     | 13.218            | 0                        |                          |   |                    |           |
| 7,800.00                     | 7,277.00              | 7,613.84              | 7,094.00              | 13.90            | 13.54         | 55.05                 | 315.99                 | 291.52                  | 24.47                     | 12.915            | 0                        |                          |   |                    |           |
| 7,900.00                     | 7,277.00              | 7,713.84              | 7,094.00              | 14.20            | 13.85         | 55.05                 | 315.99                 | 290.92                  | 25.07                     | 12.602            | 0                        |                          |   |                    |           |
| 8,000.00                     | 7,277.00              | 7,813.84              | 7,094.00              | 14.54            | 14.19         | 55.05                 | 315.99                 | 290.27                  | 25.72                     | 12.284            | 0                        |                          |   |                    |           |
| 8,100.00                     | 7,277.00              | 7,913.84              | 7,094.00              | 14.90            | 14.55         | 55.05                 | 315.99                 | 289.58                  | 26.41                     | 11.964            | 0                        |                          |   |                    |           |
| 8,200.00                     | 7,277.00              | 8,013.84              | 7,094.00              | 15.28            | 14.94         | 55.05                 | 315.99                 | 288.85                  | 27.14                     | 11.644            | 0                        |                          |   |                    |           |
| 8,300.00                     | 7,277.00              | 8,113.84              | 7,094.00              | 15.69            | 15.35         | 55.05                 | 315.99                 | 288.09                  | 27.90                     | 11.327            | 0                        |                          |   |                    |           |
| 8,365.90                     | 7,277.00              | 8,179.74              | 7,094.00              | 15.97            | 15.63         | 55.05                 | 315.99                 | 287.47                  | 28.52                     | 11.078            | 0                        |                          |   |                    |           |
| 8,400.00                     | 7,277.00              | 8,213.84              | 7,094.00              | 16.11            | 15.78         | 55.05                 | 315.99                 | 287.30                  | 28.69                     | 11.015            | 0                        |                          |   |                    |           |
| 8,500.00                     | 7,277.00              | 8,313.84              | 7,094.00              | 16.56            | 16.22         | 55.05                 | 315.99                 | 286.49                  | 29.50                     | 10.710            | 0                        |                          |   |                    |           |
| 8,600.00                     | 7,277.00              | 8,413.84              | 7,094.00              | 17.02            | 16.69         | 55.05                 | 315.99                 | 285.64                  | 30.35                     | 10.412            | 0                        |                          |   |                    |           |
| 8,700.00                     | 7,277.00              | 8,513.84              | 7,094.00              | 17.49            | 17.17         | 55.05                 | 315.99                 | 284.77                  | 31.22                     | 10.122            | 0                        |                          |   |                    |           |
| 8,800.00                     | 7,277.00              | 8,613.84              | 7,094.00              | 17.99            | 17.67         | 55.05                 | 315.99                 | 283.88                  | 32.11                     | 9.842             | 0                        |                          |   |                    |           |
| 8,900.00                     | 7,277.00              | 8,713.84              | 7,094.00              | 18.49            | 18.18         | 55.05                 | 315.99                 | 282.97                  | 33.02                     | 9.570             | 0                        |                          |   |                    |           |
| 9,000.00                     | 7,277.00              | 8,813.84              | 7,094.00              | 19.01            | 18.71         | 55.05                 | 315.99                 | 282.04                  | 33.95                     | 9.308             | 0                        |                          |   |                    |           |
| 9,100.00                     | 7,277.00              | 8,913.84              | 7,094.00              | 19.54            | 19.24         | 55.05                 | 315.99                 | 281.10                  | 34.89                     | 9.056             | 0                        |                          |   |                    |           |

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



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #5 - Original Hole - Rev 0 |  | Offset Site Error: |  | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|--------------------|--|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                    |  |           |
| 9,200.00                     | 7,277.00              | 9,013.84              | 7,094.00              | 20.08            | 19.79         | 55.05                 | 315.99                 | 280.14                  | 35.85                     | 8.813             | 0                        |                          |   |  |                    |  |           |
| 9,300.00                     | 7,277.00              | 9,113.84              | 7,094.00              | 20.63            | 20.34         | 55.05                 | 315.99                 | 279.16                  | 36.83                     | 8.580             | 0                        |                          |   |  |                    |  |           |
| 9,400.00                     | 7,277.00              | 9,213.84              | 7,094.00              | 21.19            | 20.91         | 55.05                 | 315.99                 | 278.17                  | 37.82                     | 8.355             | 0                        |                          |   |  |                    |  |           |
| 9,500.00                     | 7,277.00              | 9,313.84              | 7,094.00              | 21.76            | 21.48         | 55.05                 | 315.99                 | 277.17                  | 38.82                     | 8.139             | 0                        |                          |   |  |                    |  |           |
| 9,600.00                     | 7,277.00              | 9,413.84              | 7,094.00              | 22.34            | 22.06         | 55.05                 | 315.99                 | 276.15                  | 39.84                     | 7.932             | 0                        |                          |   |  |                    |  |           |
| 9,700.00                     | 7,277.00              | 9,513.84              | 7,094.00              | 22.92            | 22.65         | 55.05                 | 315.99                 | 275.13                  | 40.86                     | 7.733             | 0                        |                          |   |  |                    |  |           |
| 9,800.00                     | 7,277.00              | 9,613.84              | 7,094.00              | 23.51            | 23.24         | 55.05                 | 315.99                 | 274.10                  | 41.89                     | 7.542             | 0                        |                          |   |  |                    |  |           |
| 9,865.99                     | 7,277.00              | 9,679.84              | 7,094.00              | 23.90            | 23.64         | 55.05                 | 315.99                 | 273.30                  | 42.69                     | 7.402             | 0                        |                          |   |  |                    |  |           |
| 9,900.00                     | 7,277.00              | 9,713.84              | 7,094.00              | 24.10            | 23.84         | 55.05                 | 315.99                 | 273.05                  | 42.94                     | 7.359             | 0                        |                          |   |  |                    |  |           |
| 10,000.00                    | 7,277.00              | 9,813.84              | 7,094.00              | 24.71            | 24.45         | 55.05                 | 315.99                 | 272.00                  | 43.99                     | 7.183             | 0                        |                          |   |  |                    |  |           |
| 10,100.00                    | 7,277.00              | 9,913.84              | 7,094.00              | 25.31            | 25.06         | 55.05                 | 315.99                 | 270.94                  | 45.05                     | 7.014             | 0                        |                          |   |  |                    |  |           |
| 10,200.00                    | 7,277.00              | 10,013.84             | 7,094.00              | 25.92            | 25.67         | 55.05                 | 315.99                 | 269.87                  | 46.12                     | 6.852             | 0                        |                          |   |  |                    |  |           |
| 10,300.00                    | 7,277.00              | 10,113.84             | 7,094.00              | 26.54            | 26.29         | 55.05                 | 315.99                 | 268.80                  | 47.19                     | 6.696             | 0                        |                          |   |  |                    |  |           |
| 10,400.00                    | 7,277.00              | 10,213.84             | 7,094.00              | 27.16            | 26.91         | 55.05                 | 315.99                 | 267.72                  | 48.27                     | 6.546             | 0                        |                          |   |  |                    |  |           |
| 10,500.00                    | 7,277.00              | 10,313.84             | 7,094.00              | 27.78            | 27.54         | 55.05                 | 315.99                 | 266.63                  | 49.36                     | 6.402             | 0                        |                          |   |  |                    |  |           |
| 10,600.00                    | 7,277.00              | 10,413.84             | 7,094.00              | 28.41            | 28.17         | 55.05                 | 315.99                 | 265.54                  | 50.45                     | 6.264             | 0                        |                          |   |  |                    |  |           |
| 10,700.00                    | 7,277.00              | 10,513.84             | 7,094.00              | 29.04            | 28.81         | 55.05                 | 315.99                 | 264.45                  | 51.54                     | 6.131             | 0                        |                          |   |  |                    |  |           |
| 10,800.00                    | 7,277.00              | 10,613.84             | 7,094.00              | 29.68            | 29.44         | 55.05                 | 315.99                 | 263.34                  | 52.65                     | 6.002             | 0                        |                          |   |  |                    |  |           |
| 10,900.00                    | 7,277.00              | 10,713.84             | 7,094.00              | 30.32            | 30.09         | 55.05                 | 315.99                 | 262.24                  | 53.75                     | 5.879             | 0                        |                          |   |  |                    |  |           |
| 11,000.00                    | 7,277.00              | 10,813.84             | 7,094.00              | 30.96            | 30.73         | 55.05                 | 315.99                 | 261.13                  | 54.86                     | 5.760             | 0                        |                          |   |  |                    |  |           |
| 11,100.00                    | 7,277.00              | 10,913.84             | 7,094.00              | 31.60            | 31.37         | 55.05                 | 315.99                 | 260.01                  | 55.98                     | 5.645             | 0                        |                          |   |  |                    |  |           |
| 11,200.00                    | 7,277.00              | 11,013.84             | 7,094.00              | 32.25            | 32.02         | 55.05                 | 315.99                 | 258.89                  | 57.10                     | 5.534             | 0                        |                          |   |  |                    |  |           |
| 11,300.00                    | 7,277.00              | 11,113.84             | 7,094.00              | 32.89            | 32.67         | 55.05                 | 315.99                 | 257.77                  | 58.22                     | 5.428             | 0                        |                          |   |  |                    |  |           |
| 11,365.99                    | 7,277.00              | 11,179.84             | 7,094.00              | 33.32            | 33.10         | 55.05                 | 315.99                 | 256.92                  | 59.07                     | 5.350             | 0                        |                          |   |  |                    |  |           |
| 11,400.00                    | 7,277.00              | 11,213.84             | 7,094.00              | 33.54            | 33.33         | 55.05                 | 315.99                 | 256.65                  | 59.34                     | 5.325             | 0                        |                          |   |  |                    |  |           |
| 11,500.00                    | 7,277.00              | 11,313.84             | 7,094.00              | 34.20            | 33.98         | 55.05                 | 315.99                 | 255.52                  | 60.47                     | 5.225             | 0                        |                          |   |  |                    |  |           |
| 11,600.00                    | 7,277.00              | 11,413.84             | 7,094.00              | 34.85            | 34.64         | 55.05                 | 315.99                 | 254.39                  | 61.60                     | 5.129             | 0                        |                          |   |  |                    |  |           |
| 11,700.00                    | 7,277.00              | 11,513.84             | 7,094.00              | 35.51            | 35.30         | 55.05                 | 315.99                 | 253.25                  | 62.74                     | 5.037             | 0                        |                          |   |  |                    |  |           |
| 11,800.00                    | 7,277.00              | 11,613.84             | 7,094.00              | 36.16            | 35.96         | 55.05                 | 315.99                 | 252.12                  | 63.87                     | 4.947             | 0                        |                          |   |  |                    |  |           |
| 11,900.00                    | 7,277.00              | 11,713.84             | 7,094.00              | 36.82            | 36.62         | 55.05                 | 315.99                 | 250.98                  | 65.01                     | 4.860             | 0                        |                          |   |  |                    |  |           |
| 12,000.00                    | 7,277.00              | 11,813.84             | 7,094.00              | 37.49            | 37.28         | 55.05                 | 315.99                 | 249.83                  | 66.16                     | 4.776             | 0                        |                          |   |  |                    |  |           |
| 12,100.00                    | 7,277.00              | 11,913.84             | 7,094.00              | 38.15            | 37.95         | 55.05                 | 315.99                 | 248.69                  | 67.30                     | 4.695             | 0                        |                          |   |  |                    |  |           |
| 12,200.00                    | 7,277.00              | 12,013.84             | 7,094.00              | 38.81            | 38.61         | 55.05                 | 315.99                 | 247.54                  | 68.45                     | 4.617             | 0                        |                          |   |  |                    |  |           |
| 12,300.00                    | 7,277.00              | 12,113.84             | 7,094.00              | 39.48            | 39.28         | 55.05                 | 315.99                 | 246.39                  | 69.60                     | 4.540             | 0                        |                          |   |  |                    |  |           |
| 12,400.00                    | 7,277.00              | 12,213.84             | 7,094.00              | 40.15            | 39.95         | 55.05                 | 315.99                 | 245.24                  | 70.75                     | 4.466             | 0                        |                          |   |  |                    |  |           |
| 12,500.00                    | 7,277.00              | 12,313.84             | 7,094.00              | 40.81            | 40.62         | 55.05                 | 315.99                 | 244.09                  | 71.90                     | 4.395             | 0                        |                          |   |  |                    |  |           |
| 12,600.00                    | 7,277.00              | 12,413.84             | 7,094.00              | 41.48            | 41.29         | 55.05                 | 315.99                 | 242.94                  | 73.05                     | 4.325             | 0                        |                          |   |  |                    |  |           |
| 12,700.00                    | 7,277.00              | 12,513.84             | 7,094.00              | 42.15            | 41.96         | 55.05                 | 315.99                 | 241.78                  | 74.21                     | 4.258             | 0                        |                          |   |  |                    |  |           |
| 12,800.00                    | 7,277.00              | 12,613.84             | 7,094.00              | 42.82            | 42.63         | 55.05                 | 315.99                 | 240.62                  | 75.37                     | 4.193             | 0                        |                          |   |  |                    |  |           |
| 12,865.99                    | 7,277.00              | 12,679.84             | 7,094.00              | 43.27            | 43.08         | 55.05                 | 315.99                 | 239.75                  | 76.24                     | 4.145             | 0                        |                          |   |  |                    |  |           |
| 12,900.00                    | 7,277.00              | 12,713.84             | 7,094.00              | 43.50            | 43.31         | 55.05                 | 315.99                 | 239.46                  | 76.53                     | 4.129             | 0                        |                          |   |  |                    |  |           |
| 13,000.00                    | 7,277.00              | 12,813.84             | 7,094.00              | 44.17            | 43.98         | 55.05                 | 315.99                 | 238.30                  | 77.69                     | 4.067             | 0                        |                          |   |  |                    |  |           |
| 13,100.00                    | 7,277.00              | 12,913.84             | 7,094.00              | 44.85            | 44.66         | 55.05                 | 315.99                 | 237.14                  | 78.85                     | 4.007             | 0                        |                          |   |  |                    |  |           |
| 13,200.00                    | 7,277.00              | 13,013.84             | 7,094.00              | 45.52            | 45.34         | 55.05                 | 315.99                 | 235.97                  | 80.02                     | 3.949             | 0                        |                          |   |  |                    |  |           |
| 13,300.00                    | 7,277.00              | 13,113.84             | 7,094.00              | 46.20            | 46.01         | 55.05                 | 315.99                 | 234.81                  | 81.18                     | 3.892             | 0                        |                          |   |  |                    |  |           |
| 13,400.00                    | 7,277.00              | 13,213.84             | 7,094.00              | 46.87            | 46.69         | 55.05                 | 315.99                 | 233.64                  | 82.35                     | 3.837             | 0                        |                          |   |  |                    |  |           |
| 13,500.00                    | 7,277.00              | 13,313.84             | 7,094.00              | 47.55            | 47.37         | 55.05                 | 315.99                 | 232.48                  | 83.51                     | 3.784             | 0                        |                          |   |  |                    |  |           |
| 13,600.00                    | 7,277.00              | 13,413.84             | 7,094.00              | 48.23            | 48.05         | 55.05                 | 315.99                 | 231.31                  | 84.68                     | 3.731             | 0                        |                          |   |  |                    |  |           |
| 13,700.00                    | 7,277.00              | 13,513.84             | 7,094.00              | 48.91            | 48.73         | 55.05                 | 315.99                 | 230.14                  | 85.85                     | 3.681             | 0                        |                          |   |  |                    |  |           |
| 13,800.00                    | 7,277.00              | 13,613.84             | 7,094.00              | 49.59            | 49.41         | 55.05                 | 315.99                 | 228.97                  | 87.02                     | 3.631             | 0                        |                          |   |  |                    |  |           |
| 13,900.00                    | 7,277.00              | 13,713.84             | 7,094.00              | 50.27            | 50.09         | 55.05                 | 315.99                 | 227.80                  | 88.19                     | 3.583             | 0                        |                          |   |  |                    |  |           |
| 14,000.00                    | 7,277.00              | 13,813.84             | 7,094.00              | 50.95            | 50.78         | 55.05                 | 315.99                 | 226.62                  | 89.37                     | 3.536             | 0                        |                          |   |  |                    |  |           |
| 14,100.00                    | 7,277.00              | 13,913.84             | 7,094.00              | 51.63            | 51.46         | 55.05                 | 315.99                 | 225.45                  | 90.54                     | 3.490             | 0                        |                          |   |  |                    |  |           |
| 14,200.00                    | 7,277.00              | 14,013.84             | 7,094.00              | 52.31            | 52.14         | 55.05                 | 315.99                 | 224.27                  | 91.72                     | 3.445             | 0                        |                          |   |  |                    |  |           |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #5 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                           |           |
| 14,300.00  | 7,277.00              | 14,113.84             | 7,094.00              | 53.00            | 52.83         | 55.05                 | 315.99                 | 223.10                  | 92.89                     | 3.402             | 0                        |                          |                           |           |
| 14,365.99  | 7,277.00              | 14,179.84             | 7,094.00              | 53.45            | 53.28         | 55.05                 | 315.99                 | 222.21                  | 93.78                     | 3.370             | 0                        |                          |                           |           |
| 14,400.00  | 7,277.00              | 14,213.84             | 7,094.00              | 53.68            | 53.51         | 55.05                 | 315.99                 | 221.92                  | 94.07                     | 3.359             | 0                        |                          |                           |           |
| 14,500.00  | 7,277.00              | 14,313.84             | 7,094.00              | 54.36            | 54.20         | 55.05                 | 315.99                 | 220.75                  | 95.24                     | 3.318             | 0                        |                          |                           |           |
| 14,600.00  | 7,277.00              | 14,413.84             | 7,094.00              | 55.05            | 54.88         | 55.05                 | 315.99                 | 219.57                  | 96.42                     | 3.277             | 0                        |                          |                           |           |
| 14,700.00  | 7,277.00              | 14,513.84             | 7,094.00              | 55.73            | 55.57         | 55.05                 | 315.99                 | 218.39                  | 97.60                     | 3.238             | 0                        |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,613.84             | 7,094.00              | 56.42            | 56.25         | 55.05                 | 315.99                 | 217.21                  | 98.78                     | 3.199             | 0                        |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,713.84             | 7,094.00              | 57.11            | 56.94         | 55.05                 | 315.99                 | 216.03                  | 99.96                     | 3.161             | 0                        |                          |                           |           |
| 14,953.92  | 7,277.00              | 14,767.76             | 7,094.00              | 57.48            | 57.31         | 55.05                 | 315.99                 | 215.24                  | 100.75                    | 3.136             | 0                        |                          |                           |           |
| 15,000.00  | 7,277.00              | 14,813.83             | 7,094.00              | 57.79            | 57.63         | 55.05                 | 315.99                 | 214.85                  | 101.14                    | 3.124             | 0                        |                          |                           |           |
| 15,048.84  | 7,277.00              | 14,862.67             | 7,094.00              | 58.13            | 57.96         | 55.05                 | 315.99                 | 214.27                  | 101.72                    | 3.107             | 0                        |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.53               | 56.19                  |                         |                           |                   |                          | CC, ES                       |  |
| 100.00                       | 100.00                | 97.00                 | 97.00                 | 0.15             | 0.14          | -179.53               | 56.11                  | 55.82                   | 0.29                      | 194.275           | 0                        |                              |  |
| 200.00                       | 200.00                | 197.00                | 197.00                | 0.32             | 0.32          | -179.53               | 56.11                  | 55.47                   | 0.64                      | 88.078            | 0                        |                              |  |
| 300.00                       | 300.00                | 297.00                | 297.00                | 0.50             | 0.49          | -179.53               | 56.11                  | 55.12                   | 0.99                      | 56.900            | 0                        |                              |  |
| 400.00                       | 400.00                | 397.00                | 397.00                | 0.67             | 0.66          | -179.53               | 56.11                  | 54.77                   | 1.34                      | 42.024            | 0                        |                              |  |
| 500.00                       | 500.00                | 497.00                | 497.00                | 0.84             | 0.84          | -179.53               | 56.11                  | 54.43                   | 1.68                      | 33.315            | 0                        |                              |  |
| 600.00                       | 600.00                | 597.00                | 597.00                | 1.02             | 1.01          | -179.53               | 56.11                  | 54.08                   | 2.03                      | 27.595            | 0                        |                              |  |
| 700.00                       | 700.00                | 697.00                | 697.00                | 1.19             | 1.19          | -179.53               | 56.11                  | 53.73                   | 2.38                      | 23.552            | 0                        |                              |  |
| 800.00                       | 800.00                | 797.00                | 797.00                | 1.37             | 1.36          | -179.53               | 56.11                  | 53.38                   | 2.73                      | 20.542            | 0                        |                              |  |
| 900.00                       | 900.00                | 897.00                | 897.00                | 1.54             | 1.54          | -179.53               | 56.11                  | 53.03                   | 3.08                      | 18.215            | 0                        |                              |  |
| 1,000.00                     | 999.98                | 996.98                | 996.98                | 1.72             | 1.71          | -113.24               | 56.78                  | 53.35                   | 3.43                      | 16.553            | 0                        |                              |  |
| 1,100.00                     | 1,099.84              | 1,096.84              | 1,096.84              | 1.89             | 1.89          | -117.87               | 59.04                  | 55.26                   | 3.78                      | 15.619            | 0                        |                              |  |
| 1,200.00                     | 1,199.45              | 1,195.90              | 1,195.89              | 2.07             | 2.06          | -123.30               | 64.00                  | 59.87                   | 4.13                      | 15.498            | 0                        |                              |  |
| 1,239.63                     | 1,238.83              | 1,235.15              | 1,235.10              | 2.14             | 2.13          | -125.08               | 66.89                  | 62.62                   | 4.27                      | 15.674            | 0                        |                              |  |
| 1,300.00                     | 1,298.78              | 1,294.95              | 1,294.80              | 2.25             | 2.23          | -127.04               | 71.86                  | 67.38                   | 4.48                      | 16.042            | 0                        |                              |  |
| 1,400.00                     | 1,398.08              | 1,394.05              | 1,393.53              | 2.43             | 2.41          | -127.81               | 80.74                  | 75.90                   | 4.83                      | 16.708            | 0                        |                              |  |
| 1,500.00                     | 1,497.38              | 1,493.04              | 1,491.81              | 2.61             | 2.58          | -126.29               | 90.28                  | 85.10                   | 5.19                      | 17.410            | 0                        |                              |  |
| 1,600.00                     | 1,596.68              | 1,592.49              | 1,590.37              | 2.79             | 2.76          | -124.27               | 100.22                 | 94.68                   | 5.54                      | 18.083            | 0                        |                              |  |
| 1,700.00                     | 1,695.97              | 1,691.94              | 1,688.93              | 2.97             | 2.94          | -122.62               | 110.26                 | 104.36                  | 5.90                      | 18.686            | 0                        |                              |  |
| 1,800.00                     | 1,795.27              | 1,791.39              | 1,787.49              | 3.15             | 3.12          | -121.25               | 120.38                 | 114.12                  | 6.26                      | 19.229            | 0                        |                              |  |
| 1,900.00                     | 1,894.57              | 1,890.84              | 1,886.05              | 3.33             | 3.30          | -120.09               | 130.55                 | 123.93                  | 6.62                      | 19.719            | 0                        |                              |  |
| 2,000.00                     | 1,993.87              | 1,990.29              | 1,984.61              | 3.52             | 3.49          | -119.09               | 140.77                 | 133.78                  | 6.98                      | 20.162            | 0                        |                              |  |
| 2,100.00                     | 2,093.17              | 2,089.74              | 2,083.17              | 3.70             | 3.67          | -118.23               | 151.02                 | 143.68                  | 7.34                      | 20.565            | 0                        |                              |  |
| 2,200.00                     | 2,192.46              | 2,189.19              | 2,181.73              | 3.88             | 3.85          | -117.48               | 161.30                 | 153.60                  | 7.71                      | 20.929            | 0                        |                              |  |
| 2,300.00                     | 2,291.76              | 2,288.64              | 2,280.29              | 4.06             | 4.03          | -116.82               | 171.61                 | 163.54                  | 8.07                      | 21.263            | 0                        |                              |  |
| 2,400.00                     | 2,391.06              | 2,388.08              | 2,378.85              | 4.25             | 4.22          | -116.24               | 181.94                 | 173.50                  | 8.44                      | 21.569            | 0                        |                              |  |
| 2,500.00                     | 2,490.36              | 2,487.53              | 2,477.41              | 4.43             | 4.40          | -115.72               | 192.28                 | 183.48                  | 8.80                      | 21.851            | 0                        |                              |  |
| 2,600.00                     | 2,589.66              | 2,586.98              | 2,575.97              | 4.62             | 4.59          | -115.25               | 202.64                 | 193.48                  | 9.16                      | 22.111            | 0                        |                              |  |
| 2,700.00                     | 2,688.95              | 2,686.43              | 2,674.53              | 4.80             | 4.77          | -114.83               | 213.01                 | 203.48                  | 9.53                      | 22.352            | 0                        |                              |  |
| 2,800.00                     | 2,788.25              | 2,785.88              | 2,773.09              | 4.98             | 4.95          | -114.44               | 223.39                 | 213.50                  | 9.90                      | 22.576            | 0                        |                              |  |
| 2,900.00                     | 2,887.55              | 2,885.33              | 2,871.65              | 5.17             | 5.14          | -114.09               | 233.78                 | 223.52                  | 10.26                     | 22.784            | 0                        |                              |  |
| 3,000.00                     | 2,986.85              | 2,984.78              | 2,970.21              | 5.35             | 5.32          | -113.77               | 244.18                 | 233.55                  | 10.63                     | 22.978            | 0                        |                              |  |
| 3,100.00                     | 3,086.15              | 3,084.23              | 3,068.77              | 5.54             | 5.51          | -113.48               | 254.58                 | 243.59                  | 10.99                     | 23.160            | 0                        |                              |  |
| 3,200.00                     | 3,185.44              | 3,183.68              | 3,167.33              | 5.72             | 5.69          | -113.21               | 264.99                 | 253.64                  | 11.36                     | 23.330            | 0                        |                              |  |
| 3,300.00                     | 3,284.74              | 3,283.13              | 3,265.89              | 5.90             | 5.88          | -112.96               | 275.41                 | 263.69                  | 11.73                     | 23.489            | 0                        |                              |  |
| 3,400.00                     | 3,384.04              | 3,382.58              | 3,364.45              | 6.09             | 6.06          | -112.73               | 285.83                 | 273.74                  | 12.09                     | 23.639            | 0                        |                              |  |
| 3,500.00                     | 3,483.34              | 3,482.02              | 3,463.01              | 6.27             | 6.25          | -112.51               | 296.26                 | 283.80                  | 12.46                     | 23.781            | 0                        |                              |  |
| 3,600.00                     | 3,582.64              | 3,581.47              | 3,561.57              | 6.46             | 6.44          | -112.31               | 306.69                 | 293.86                  | 12.82                     | 23.914            | 0                        |                              |  |
| 3,700.00                     | 3,681.94              | 3,680.92              | 3,660.13              | 6.64             | 6.62          | -112.12               | 317.12                 | 303.93                  | 13.19                     | 24.040            | 0                        |                              |  |
| 3,800.00                     | 3,781.23              | 3,780.37              | 3,758.69              | 6.83             | 6.81          | -111.95               | 327.55                 | 314.00                  | 13.56                     | 24.159            | 0                        |                              |  |
| 3,900.00                     | 3,880.53              | 3,879.82              | 3,857.24              | 7.01             | 6.99          | -111.78               | 337.99                 | 324.07                  | 13.92                     | 24.273            | 0                        |                              |  |
| 4,000.00                     | 3,979.83              | 3,979.27              | 3,955.80              | 7.20             | 7.18          | -111.63               | 348.43                 | 334.14                  | 14.29                     | 24.380            | 0                        |                              |  |
| 4,100.00                     | 4,079.13              | 4,078.72              | 4,054.36              | 7.38             | 7.36          | -111.48               | 358.88                 | 344.22                  | 14.66                     | 24.482            | 0                        |                              |  |
| 4,200.00                     | 4,178.43              | 4,178.17              | 4,152.92              | 7.56             | 7.55          | -111.34               | 369.32                 | 354.30                  | 15.03                     | 24.579            | 0                        |                              |  |
| 4,300.00                     | 4,277.72              | 4,277.62              | 4,251.48              | 7.75             | 7.74          | -111.21               | 379.77                 | 364.38                  | 15.39                     | 24.672            | 0                        |                              |  |
| 4,400.00                     | 4,377.02              | 4,377.07              | 4,350.04              | 7.93             | 7.92          | -111.09               | 390.22                 | 374.46                  | 15.76                     | 24.760            | 0                        |                              |  |
| 4,500.00                     | 4,476.32              | 4,476.52              | 4,448.60              | 8.12             | 8.11          | -110.97               | 400.67                 | 384.55                  | 16.13                     | 24.844            | 0                        |                              |  |
| 4,600.00                     | 4,575.62              | 4,575.97              | 4,547.16              | 8.30             | 8.30          | -110.86               | 411.13                 | 394.63                  | 16.49                     | 24.925            | 0                        |                              |  |
| 4,700.00                     | 4,674.92              | 4,675.41              | 4,645.72              | 8.49             | 8.48          | -110.75               | 421.58                 | 404.72                  | 16.86                     | 25.002            | 0                        |                              |  |
| 4,800.00                     | 4,774.21              | 4,774.86              | 4,744.28              | 8.67             | 8.67          | -110.65               | 432.04                 | 414.81                  | 17.23                     | 25.075            | 0                        |                              |  |
| 4,900.00                     | 4,873.51              | 4,874.31              | 4,842.84              | 8.86             | 8.85          | -110.56               | 442.49                 | 424.90                  | 17.60                     | 25.146            | 0                        |                              |  |
| 5,000.00                     | 4,972.81              | 4,973.76              | 4,941.40              | 9.04             | 9.04          | -110.47               | 452.95                 | 434.99                  | 17.96                     | 25.214            | 0                        |                              |  |
| 5,100.00                     | 5,072.11              | 5,073.21              | 5,039.96              | 9.23             | 9.23          | -110.38               | 463.41                 | 445.08                  | 18.33                     | 25.279            | 0                        |                              |  |
| 5,200.00                     | 5,171.41              | 5,172.66              | 5,138.52              | 9.41             | 9.41          | -110.30               | 473.87                 | 455.17                  | 18.70                     | 25.342            | 0                        |                              |  |

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





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #6 - Original Hole - Rev 0 |  | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                              |  |
| 5,300.00                     | 5,270.70              | 5,272.11              | 5,237.08              | 9.60             | 9.60          | -110.22               | 484.33                 | 465.27                  | 19.07                     | 25.402            | 0                        |                          |   |  |                              |  |
| 5,400.00                     | 5,370.00              | 5,371.56              | 5,335.64              | 9.78             | 9.79          | -110.14               | 494.79                 | 475.36                  | 19.43                     | 25.460            | 0                        |                          |   |  |                              |  |
| 5,500.00                     | 5,469.30              | 5,471.01              | 5,434.20              | 9.97             | 9.97          | -110.07               | 505.26                 | 485.46                  | 19.80                     | 25.516            | 0                        |                          |   |  |                              |  |
| 5,600.00                     | 5,568.60              | 5,570.46              | 5,532.76              | 10.15            | 10.16         | -110.00               | 515.72                 | 495.55                  | 20.17                     | 25.569            | 0                        |                          |   |  |                              |  |
| 5,700.00                     | 5,667.90              | 5,669.91              | 5,631.32              | 10.34            | 10.35         | -109.93               | 526.19                 | 505.65                  | 20.54                     | 25.621            | 0                        |                          |   |  |                              |  |
| 5,800.00                     | 5,767.20              | 5,769.35              | 5,729.88              | 10.52            | 10.53         | -109.87               | 536.65                 | 515.75                  | 20.90                     | 25.671            | 0                        |                          |   |  |                              |  |
| 5,900.00                     | 5,866.49              | 5,868.80              | 5,828.44              | 10.71            | 10.72         | -109.80               | 547.12                 | 525.84                  | 21.27                     | 25.719            | 0                        |                          |   |  |                              |  |
| 6,000.00                     | 5,965.79              | 5,968.25              | 5,927.00              | 10.89            | 10.91         | -109.74               | 557.58                 | 535.94                  | 21.64                     | 25.766            | 0                        |                          |   |  |                              |  |
| 6,100.00                     | 6,065.09              | 6,073.08              | 6,030.95              | 11.08            | 11.10         | -109.73               | 567.81                 | 545.79                  | 22.02                     | 25.791            | 0                        |                          |   |  |                              |  |
| 6,200.00                     | 6,164.39              | 6,183.21              | 6,140.58              | 11.26            | 11.30         | -110.04               | 576.42                 | 554.02                  | 22.40                     | 25.738            | 0                        |                          |   |  |                              |  |
| 6,237.42                     | 6,201.55              | 6,224.43              | 6,181.71              | 11.33            | 11.37         | -110.25               | 579.18                 | 556.64                  | 22.54                     | 25.699            | 0                        |                          |   |  |                              |  |
| 6,300.00                     | 6,263.76              | 6,293.38              | 6,250.58              | 11.45            | 11.49         | -110.72               | 583.00                 | 560.23                  | 22.78                     | 25.598            | 0                        |                          |   |  |                              |  |
| 6,400.00                     | 6,363.44              | 6,403.28              | 6,360.44              | 11.62            | 11.67         | -111.41               | 586.70                 | 563.55                  | 23.14                     | 25.350            | 0                        |                          |   |  |                              |  |
| 6,500.00                     | 6,463.34              | 6,503.18              | 6,460.35              | 11.79            | 11.84         | -111.84               | 588.33                 | 564.84                  | 23.49                     | 25.048            | 0                        |                          |   |  |                              |  |
| 6,577.05                     | 6,540.38              | 6,579.98              | 6,536.93              | 11.92            | 11.95         | 179.66                | 588.73                 | 565.51                  | 23.22                     | 25.358            | 0                        |                          |   |  |                              |  |
| 6,600.00                     | 6,563.33              | 6,602.51              | 6,559.24              | 11.96            | 11.99         | 179.34                | 588.76                 | 565.46                  | 23.29                     | 25.275            | 0                        |                          |   |  |                              |  |
| 6,677.05                     | 6,640.38              | 6,676.01              | 6,630.96              | 12.09            | 12.08         | 177.79                | 589.19                 | 565.64                  | 23.55                     | 25.021            | 0                        |                          |   |  |                              |  |
| 6,700.00                     | 6,663.33              | 6,697.21              | 6,651.25              | 12.13            | 12.11         | 87.21                 | 589.47                 | 565.37                  | 24.10                     | 24.455            | 0                        |                          |   |  |                              |  |
| 6,750.00                     | 6,713.17              | 6,742.79              | 6,694.13              | 12.20            | 12.17         | 85.96                 | 590.30                 | 566.06                  | 24.24                     | 24.357            | 0                        |                          |   |  |                              |  |
| 6,800.00                     | 6,762.57              | 6,787.59              | 6,735.09              | 12.28            | 12.22         | 84.74                 | 591.39                 | 567.03                  | 24.36                     | 24.281            | 0                        |                          |   |  |                              |  |
| 6,850.00                     | 6,811.21              | 6,831.67              | 6,774.06              | 12.34            | 12.27         | 83.55                 | 592.71                 | 568.24                  | 24.47                     | 24.227            | 0                        |                          |   |  |                              |  |
| 6,900.00                     | 6,858.80              | 6,875.09              | 6,810.96              | 12.41            | 12.31         | 82.41                 | 594.23                 | 569.66                  | 24.56                     | 24.191            | 0                        |                          |   |  |                              |  |
| 6,950.00                     | 6,905.04              | 6,917.92              | 6,845.75              | 12.47            | 12.36         | 81.32                 | 595.91                 | 571.25                  | 24.65                     | 24.173            | 0                        |                          |   |  |                              |  |
| 7,000.00                     | 6,949.66              | 6,960.20              | 6,878.37              | 12.52            | 12.41         | 80.28                 | 597.70                 | 572.98                  | 24.73                     | 24.170            | 0                        |                          |   |  |                              |  |
| 7,050.00                     | 6,992.36              | 7,000.00              | 6,907.39              | 12.58            | 12.45         | 79.33                 | 599.59                 | 574.79                  | 24.80                     | 24.181            | 0                        |                          |   |  |                              |  |
| 7,100.00                     | 7,032.90              | 7,043.34              | 6,936.98              | 12.63            | 12.50         | 78.37                 | 601.50                 | 576.64                  | 24.86                     | 24.197            | 0                        |                          |   |  |                              |  |
| 7,150.00                     | 7,071.01              | 7,084.29              | 6,962.90              | 12.69            | 12.54         | 77.51                 | 603.42                 | 578.50                  | 24.92                     | 24.219            | 0                        |                          |   |  |                              |  |
| 7,200.00                     | 7,106.47              | 7,124.88              | 6,986.52              | 12.74            | 12.59         | 76.72                 | 605.30                 | 580.33                  | 24.97                     | 24.242            | 0                        |                          |   |  |                              |  |
| 7,250.00                     | 7,139.06              | 7,165.16              | 7,007.85              | 12.80            | 12.64         | 76.00                 | 607.10                 | 582.08                  | 25.02                     | 24.260            | 0                        |                          |   |  |                              |  |
| 7,300.00                     | 7,168.57              | 7,205.16              | 7,026.84              | 12.86            | 12.70         | 75.36                 | 608.80                 | 583.72                  | 25.08                     | 24.270            | 0                        |                          |   |  |                              |  |
| 7,350.00                     | 7,194.82              | 7,244.91              | 7,043.49              | 12.93            | 12.75         | 74.79                 | 610.37                 | 585.21                  | 25.16                     | 24.264            | 0                        |                          |   |  |                              |  |
| 7,400.00                     | 7,217.66              | 7,284.46              | 7,057.79              | 13.00            | 12.81         | 74.29                 | 611.76                 | 586.52                  | 25.24                     | 24.238            | 0                        |                          |   |  |                              |  |
| 7,450.00                     | 7,236.94              | 7,323.84              | 7,069.72              | 13.07            | 12.87         | 73.88                 | 612.97                 | 587.63                  | 25.34                     | 24.189            | 0                        |                          |   |  |                              |  |
| 7,500.00                     | 7,252.54              | 7,363.08              | 7,079.29              | 13.15            | 12.94         | 73.54                 | 613.97                 | 588.51                  | 25.46                     | 24.111            | 0                        |                          |   |  |                              |  |
| 7,550.00                     | 7,264.36              | 7,400.00              | 7,086.13              | 13.25            | 13.02         | 73.29                 | 614.75                 | 589.14                  | 25.61                     | 24.008            | 0                        |                          |   |  |                              |  |
| 7,600.00                     | 7,272.34              | 7,441.25              | 7,091.27              | 13.36            | 13.12         | 73.11                 | 615.28                 | 589.50                  | 25.78                     | 23.862            | 0                        |                          |   |  |                              |  |
| 7,650.00                     | 7,276.43              | 7,480.25              | 7,093.69              | 13.49            | 13.22         | 73.02                 | 615.57                 | 589.59                  | 25.98                     | 23.690            | 0                        |                          |   |  |                              |  |
| 7,677.05                     | 7,277.00              | 7,501.66              | 7,094.00              | 13.55            | 13.27         | 73.00                 | 615.62                 | 589.52                  | 26.10                     | 23.583            | 0                        |                          |   |  |                              |  |
| 7,700.00                     | 7,277.00              | 7,524.61              | 7,094.00              | 13.62            | 13.33         | 73.00                 | 615.62                 | 589.40                  | 26.23                     | 23.474            | 0                        |                          |   |  |                              |  |
| 7,800.00                     | 7,277.00              | 7,624.61              | 7,094.00              | 13.90            | 13.62         | 73.00                 | 615.62                 | 588.84                  | 26.78                     | 22.988            | 0                        |                          |   |  |                              |  |
| 7,900.00                     | 7,277.00              | 7,724.61              | 7,094.00              | 14.20            | 13.93         | 73.00                 | 615.62                 | 588.23                  | 27.39                     | 22.475            | 0                        |                          |   |  |                              |  |
| 8,000.00                     | 7,277.00              | 7,824.61              | 7,094.00              | 14.54            | 14.27         | 73.00                 | 615.62                 | 587.57                  | 28.05                     | 21.944            | 0                        |                          |   |  |                              |  |
| 8,100.00                     | 7,277.00              | 7,924.61              | 7,094.00              | 14.90            | 14.63         | 73.00                 | 615.62                 | 586.85                  | 28.77                     | 21.400            | 0                        |                          |   |  |                              |  |
| 8,200.00                     | 7,277.00              | 8,024.61              | 7,094.00              | 15.28            | 15.02         | 73.00                 | 615.62                 | 586.10                  | 29.52                     | 20.851            | 0                        |                          |   |  |                              |  |
| 8,300.00                     | 7,277.00              | 8,124.61              | 7,094.00              | 15.69            | 15.42         | 73.00                 | 615.62                 | 585.30                  | 30.32                     | 20.301            | 0                        |                          |   |  |                              |  |
| 8,400.00                     | 7,277.00              | 8,224.61              | 7,094.00              | 16.11            | 15.85         | 73.00                 | 615.62                 | 584.46                  | 31.16                     | 19.755            | 0                        |                          |   |  |                              |  |
| 8,500.00                     | 7,277.00              | 8,324.61              | 7,094.00              | 16.56            | 16.30         | 73.00                 | 615.62                 | 583.58                  | 32.04                     | 19.216            | 0                        |                          |   |  |                              |  |
| 8,600.00                     | 7,277.00              | 8,424.61              | 7,094.00              | 17.02            | 16.77         | 73.00                 | 615.62                 | 582.68                  | 32.94                     | 18.687            | 0                        |                          |   |  |                              |  |
| 8,700.00                     | 7,277.00              | 8,524.61              | 7,094.00              | 17.49            | 17.25         | 73.00                 | 615.62                 | 581.74                  | 33.88                     | 18.171            | 0                        |                          |   |  |                              |  |
| 8,800.00                     | 7,277.00              | 8,624.61              | 7,094.00              | 17.99            | 17.74         | 73.00                 | 615.62                 | 580.78                  | 34.84                     | 17.668            | 0                        |                          |   |  |                              |  |
| 8,900.00                     | 7,277.00              | 8,724.61              | 7,094.00              | 18.49            | 18.25         | 73.00                 | 615.62                 | 579.79                  | 35.83                     | 17.179            | 0                        |                          |   |  |                              |  |
| 9,000.00                     | 7,277.00              | 8,824.61              | 7,094.00              | 19.01            | 18.78         | 73.00                 | 615.62                 | 578.77                  | 36.85                     | 16.707            | 0                        |                          |   |  |                              |  |
| 9,100.00                     | 7,277.00              | 8,924.61              | 7,094.00              | 19.54            | 19.31         | 73.00                 | 615.62                 | 577.74                  | 37.88                     | 16.250            | 0                        |                          |   |  |                              |  |
| 9,200.00                     | 7,277.00              | 9,024.61              | 7,094.00              | 20.08            | 19.85         | 73.00                 | 615.62                 | 576.68                  | 38.94                     | 15.810            | 0                        |                          |   |  |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 9,300.00                     | 7,277.00              | 9,124.61              | 7,094.00              | 20.63            | 20.41         | 73.00                 | 615.62                 | 575.61                  | 40.01                     | 15.386            | 0                        |                          |                    |           |
| 9,400.00                     | 7,277.00              | 9,224.61              | 7,094.00              | 21.19            | 20.97         | 73.00                 | 615.62                 | 574.52                  | 41.10                     | 14.978            | 0                        |                          |                    |           |
| 9,500.00                     | 7,277.00              | 9,324.61              | 7,094.00              | 21.76            | 21.54         | 73.00                 | 615.62                 | 573.41                  | 42.21                     | 14.585            | 0                        |                          |                    |           |
| 9,600.00                     | 7,277.00              | 9,424.61              | 7,094.00              | 22.34            | 22.12         | 73.00                 | 615.62                 | 572.29                  | 43.33                     | 14.208            | 0                        |                          |                    |           |
| 9,700.00                     | 7,277.00              | 9,524.61              | 7,094.00              | 22.92            | 22.71         | 73.00                 | 615.62                 | 571.16                  | 44.46                     | 13.846            | 0                        |                          |                    |           |
| 9,800.00                     | 7,277.00              | 9,624.61              | 7,094.00              | 23.51            | 23.30         | 73.00                 | 615.62                 | 570.01                  | 45.61                     | 13.498            | 0                        |                          |                    |           |
| 9,900.00                     | 7,277.00              | 9,724.61              | 7,094.00              | 24.10            | 23.90         | 73.00                 | 615.62                 | 568.86                  | 46.76                     | 13.164            | 0                        |                          |                    |           |
| 10,000.00                    | 7,277.00              | 9,824.61              | 7,094.00              | 24.71            | 24.50         | 73.00                 | 615.62                 | 567.69                  | 47.93                     | 12.844            | 0                        |                          |                    |           |
| 10,100.00                    | 7,277.00              | 9,924.61              | 7,094.00              | 25.31            | 25.11         | 73.00                 | 615.62                 | 566.51                  | 49.11                     | 12.536            | 0                        |                          |                    |           |
| 10,200.00                    | 7,277.00              | 10,024.61             | 7,094.00              | 25.92            | 25.73         | 73.00                 | 615.62                 | 565.32                  | 50.30                     | 12.240            | 0                        |                          |                    |           |
| 10,300.00                    | 7,277.00              | 10,124.61             | 7,094.00              | 26.54            | 26.34         | 73.00                 | 615.62                 | 564.13                  | 51.49                     | 11.956            | 0                        |                          |                    |           |
| 10,400.00                    | 7,277.00              | 10,224.61             | 7,094.00              | 27.16            | 26.97         | 73.00                 | 615.62                 | 562.93                  | 52.69                     | 11.683            | 0                        |                          |                    |           |
| 10,500.00                    | 7,277.00              | 10,324.61             | 7,094.00              | 27.78            | 27.59         | 73.00                 | 615.62                 | 561.72                  | 53.90                     | 11.421            | 0                        |                          |                    |           |
| 10,600.00                    | 7,277.00              | 10,424.61             | 7,094.00              | 28.41            | 28.22         | 73.00                 | 615.62                 | 560.50                  | 55.12                     | 11.168            | 0                        |                          |                    |           |
| 10,700.00                    | 7,277.00              | 10,524.61             | 7,094.00              | 29.04            | 28.86         | 73.00                 | 615.62                 | 559.28                  | 56.35                     | 10.926            | 0                        |                          |                    |           |
| 10,800.00                    | 7,277.00              | 10,624.61             | 7,094.00              | 29.68            | 29.49         | 73.00                 | 615.62                 | 558.05                  | 57.58                     | 10.692            | 0                        |                          |                    |           |
| 10,900.00                    | 7,277.00              | 10,724.61             | 7,094.00              | 30.32            | 30.13         | 73.00                 | 615.62                 | 556.81                  | 58.81                     | 10.468            | 0                        |                          |                    |           |
| 11,000.00                    | 7,277.00              | 10,824.61             | 7,094.00              | 30.96            | 30.78         | 73.00                 | 615.62                 | 555.57                  | 60.05                     | 10.252            | 0                        |                          |                    |           |
| 11,100.00                    | 7,277.00              | 10,924.61             | 7,094.00              | 31.60            | 31.42         | 73.00                 | 615.62                 | 554.32                  | 61.30                     | 10.043            | 0                        |                          |                    |           |
| 11,200.00                    | 7,277.00              | 11,024.61             | 7,094.00              | 32.25            | 32.07         | 73.00                 | 615.62                 | 553.07                  | 62.55                     | 9.843             | 0                        |                          |                    |           |
| 11,300.00                    | 7,277.00              | 11,124.61             | 7,094.00              | 32.89            | 32.72         | 73.00                 | 615.62                 | 551.82                  | 63.80                     | 9.649             | 0                        |                          |                    |           |
| 11,400.00                    | 7,277.00              | 11,224.61             | 7,094.00              | 33.54            | 33.37         | 73.00                 | 615.62                 | 550.56                  | 65.06                     | 9.462             | 0                        |                          |                    |           |
| 11,500.00                    | 7,277.00              | 11,324.61             | 7,094.00              | 34.20            | 34.02         | 73.00                 | 615.62                 | 549.30                  | 66.32                     | 9.282             | 0                        |                          |                    |           |
| 11,600.00                    | 7,277.00              | 11,424.61             | 7,094.00              | 34.85            | 34.68         | 73.00                 | 615.62                 | 548.03                  | 67.59                     | 9.108             | 0                        |                          |                    |           |
| 11,700.00                    | 7,277.00              | 11,524.61             | 7,094.00              | 35.51            | 35.34         | 73.00                 | 615.62                 | 546.76                  | 68.86                     | 8.940             | 0                        |                          |                    |           |
| 11,800.00                    | 7,277.00              | 11,624.61             | 7,094.00              | 36.16            | 36.00         | 73.00                 | 615.62                 | 545.49                  | 70.13                     | 8.778             | 0                        |                          |                    |           |
| 11,900.00                    | 7,277.00              | 11,724.61             | 7,094.00              | 36.82            | 36.66         | 73.00                 | 615.62                 | 544.21                  | 71.41                     | 8.621             | 0                        |                          |                    |           |
| 12,000.00                    | 7,277.00              | 11,824.61             | 7,094.00              | 37.49            | 37.32         | 73.00                 | 615.62                 | 542.93                  | 72.69                     | 8.469             | 0                        |                          |                    |           |
| 12,100.00                    | 7,277.00              | 11,924.61             | 7,094.00              | 38.15            | 37.99         | 73.00                 | 615.62                 | 541.65                  | 73.97                     | 8.322             | 0                        |                          |                    |           |
| 12,200.00                    | 7,277.00              | 12,024.61             | 7,094.00              | 38.81            | 38.65         | 73.00                 | 615.62                 | 540.36                  | 75.26                     | 8.180             | 0                        |                          |                    |           |
| 12,300.00                    | 7,277.00              | 12,124.61             | 7,094.00              | 39.48            | 39.32         | 73.00                 | 615.62                 | 539.08                  | 76.54                     | 8.043             | 0                        |                          |                    |           |
| 12,400.00                    | 7,277.00              | 12,224.61             | 7,094.00              | 40.15            | 39.99         | 73.00                 | 615.62                 | 537.79                  | 77.83                     | 7.909             | 0                        |                          |                    |           |
| 12,500.00                    | 7,277.00              | 12,324.61             | 7,094.00              | 40.81            | 40.66         | 73.00                 | 615.62                 | 536.50                  | 79.13                     | 7.780             | 0                        |                          |                    |           |
| 12,600.00                    | 7,277.00              | 12,424.61             | 7,094.00              | 41.48            | 41.33         | 73.00                 | 615.62                 | 535.20                  | 80.42                     | 7.655             | 0                        |                          |                    |           |
| 12,700.00                    | 7,277.00              | 12,524.61             | 7,094.00              | 42.15            | 42.00         | 73.00                 | 615.62                 | 533.91                  | 81.72                     | 7.534             | 0                        |                          |                    |           |
| 12,800.00                    | 7,277.00              | 12,624.61             | 7,094.00              | 42.82            | 42.67         | 73.00                 | 615.62                 | 532.61                  | 83.01                     | 7.416             | 0                        |                          |                    |           |
| 12,900.00                    | 7,277.00              | 12,724.61             | 7,094.00              | 43.50            | 43.34         | 73.00                 | 615.62                 | 531.31                  | 84.31                     | 7.301             | 0                        |                          |                    |           |
| 13,000.00                    | 7,277.00              | 12,824.61             | 7,094.00              | 44.17            | 44.02         | 73.00                 | 615.62                 | 530.00                  | 85.62                     | 7.190             | 0                        |                          |                    |           |
| 13,100.00                    | 7,277.00              | 12,924.61             | 7,094.00              | 44.85            | 44.69         | 73.00                 | 615.62                 | 528.70                  | 86.92                     | 7.083             | 0                        |                          |                    |           |
| 13,200.00                    | 7,277.00              | 13,024.61             | 7,094.00              | 45.52            | 45.37         | 73.00                 | 615.62                 | 527.40                  | 88.23                     | 6.978             | 0                        |                          |                    |           |
| 13,300.00                    | 7,277.00              | 13,124.61             | 7,094.00              | 46.20            | 46.05         | 73.00                 | 615.62                 | 526.09                  | 89.53                     | 6.876             | 0                        |                          |                    |           |
| 13,400.00                    | 7,277.00              | 13,224.61             | 7,094.00              | 46.87            | 46.72         | 73.00                 | 615.62                 | 524.78                  | 90.84                     | 6.777             | 0                        |                          |                    |           |
| 13,500.00                    | 7,277.00              | 13,324.61             | 7,094.00              | 47.55            | 47.40         | 73.00                 | 615.62                 | 523.47                  | 92.15                     | 6.681             | 0                        |                          |                    |           |
| 13,600.00                    | 7,277.00              | 13,424.61             | 7,094.00              | 48.23            | 48.08         | 73.00                 | 615.62                 | 522.16                  | 93.46                     | 6.587             | 0                        |                          |                    |           |
| 13,700.00                    | 7,277.00              | 13,524.61             | 7,094.00              | 48.91            | 48.76         | 73.00                 | 615.62                 | 520.85                  | 94.77                     | 6.496             | 0                        |                          |                    |           |
| 13,800.00                    | 7,277.00              | 13,624.61             | 7,094.00              | 49.59            | 49.44         | 73.00                 | 615.62                 | 519.53                  | 96.09                     | 6.407             | 0                        |                          |                    |           |
| 13,900.00                    | 7,277.00              | 13,724.61             | 7,094.00              | 50.27            | 50.12         | 73.00                 | 615.62                 | 518.22                  | 97.40                     | 6.320             | 0                        |                          |                    |           |
| 14,000.00                    | 7,277.00              | 13,824.61             | 7,094.00              | 50.95            | 50.81         | 73.00                 | 615.62                 | 516.90                  | 98.72                     | 6.236             | 0                        |                          |                    |           |
| 14,100.00                    | 7,277.00              | 13,924.61             | 7,094.00              | 51.63            | 51.49         | 73.00                 | 615.62                 | 515.58                  | 100.04                    | 6.154             | 0                        |                          |                    |           |
| 14,200.00                    | 7,277.00              | 14,024.61             | 7,094.00              | 52.31            | 52.17         | 73.00                 | 615.62                 | 514.27                  | 101.36                    | 6.074             | 0                        |                          |                    |           |
| 14,300.00                    | 7,277.00              | 14,124.61             | 7,094.00              | 53.00            | 52.86         | 73.00                 | 615.62                 | 512.95                  | 102.67                    | 5.996             | 0                        |                          |                    |           |
| 14,400.00                    | 7,277.00              | 14,224.61             | 7,094.00              | 53.68            | 53.54         | 73.00                 | 615.62                 | 511.63                  | 104.00                    | 5.920             | 0                        |                          |                    |           |
| 14,500.00                    | 7,277.00              | 14,324.61             | 7,094.00              | 54.36            | 54.22         | 73.00                 | 615.62                 | 510.30                  | 105.32                    | 5.845             | 0                        |                          |                    |           |
| 14,600.00                    | 7,277.00              | 14,424.61             | 7,094.00              | 55.05            | 54.91         | 73.00                 | 615.62                 | 508.98                  | 106.64                    | 5.773             | 0                        |                          |                    |           |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #6 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |                           |           |
| 14,700.00  | 7,277.00              | 14,524.61             | 7,094.00              | 55.73            | 55.60         | 73.00                 | 615.62                 | 507.66                  | 107.96                    | 5.702             | 0                       |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,624.61             | 7,094.00              | 56.42            | 56.28         | 73.00                 | 615.62                 | 506.33                  | 109.29                    | 5.633             | 0                       |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,724.61             | 7,094.00              | 57.11            | 56.97         | 73.00                 | 615.62                 | 505.01                  | 110.61                    | 5.566             | 0                       |                          |                           |           |
| 14,934.40  | 7,277.00              | 14,759.01             | 7,094.00              | 57.34            | 57.20         | 73.00                 | 615.62                 | 504.31                  | 111.31                    | 5.531             | 0                       |                          |                           |           |
| 15,000.00  | 7,277.00              | 14,824.57             | 7,094.00              | 57.79            | 57.65         | 73.00                 | 615.62                 | 503.69                  | 111.94                    | 5.500             | 0                       |                          |                           |           |
| 15,048.84  | 7,277.00              | 14,873.42             | 7,094.00              | 58.13            | 57.99         | 73.00                 | 615.63                 | 503.04                  | 112.58                    | 5.468             | 0                       |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.62               | 83.89                  |                         |                           |                   | 0                        | CC, ES                       |  |
| 100.00                       | 100.00                | 96.00                 | 96.00                 | 0.15             | 0.14          | -179.62               | 83.80                  | 83.51                   | 0.29                      | 291.625           | 0                        |                              |  |
| 200.00                       | 200.00                | 196.00                | 196.00                | 0.32             | 0.31          | -179.62               | 83.80                  | 83.16                   | 0.64                      | 131.904           | 0                        |                              |  |
| 300.00                       | 300.00                | 296.00                | 296.00                | 0.50             | 0.49          | -179.62               | 83.80                  | 82.81                   | 0.98                      | 85.130            | 0                        |                              |  |
| 400.00                       | 400.00                | 396.00                | 396.00                | 0.67             | 0.66          | -179.62               | 83.80                  | 82.47                   | 1.33                      | 62.844            | 0                        |                              |  |
| 500.00                       | 500.00                | 496.00                | 496.00                | 0.84             | 0.84          | -179.62               | 83.80                  | 82.12                   | 1.68                      | 49.806            | 0                        |                              |  |
| 600.00                       | 600.00                | 596.00                | 596.00                | 1.02             | 1.01          | -179.62               | 83.80                  | 81.77                   | 2.03                      | 41.248            | 0                        |                              |  |
| 700.00                       | 700.00                | 696.00                | 696.00                | 1.19             | 1.19          | -179.62               | 83.80                  | 81.42                   | 2.38                      | 35.200            | 0                        |                              |  |
| 800.00                       | 800.00                | 796.00                | 796.00                | 1.37             | 1.36          | -179.62               | 83.80                  | 81.07                   | 2.73                      | 30.699            | 0                        |                              |  |
| 900.00                       | 900.00                | 896.00                | 896.00                | 1.54             | 1.54          | -179.62               | 83.80                  | 80.72                   | 3.08                      | 27.218            | 0                        |                              |  |
| 1,000.00                     | 999.98                | 995.98                | 995.98                | 1.72             | 1.71          | -112.79               | 84.46                  | 81.03                   | 3.43                      | 24.637            | 0                        |                              |  |
| 1,100.00                     | 1,099.84              | 1,094.28              | 1,094.27              | 1.89             | 1.88          | -115.02               | 87.47                  | 83.70                   | 3.78                      | 23.169            | 0                        |                              |  |
| 1,200.00                     | 1,199.45              | 1,192.37              | 1,192.22              | 2.07             | 2.05          | -117.13               | 93.97                  | 89.84                   | 4.12                      | 22.785            | 0                        |                              |  |
| 1,239.63                     | 1,238.83              | 1,231.16              | 1,230.91              | 2.14             | 2.12          | -117.89               | 97.50                  | 93.24                   | 4.26                      | 22.876            | 0                        |                              |  |
| 1,300.00                     | 1,298.78              | 1,290.18              | 1,289.68              | 2.25             | 2.23          | -118.74               | 103.62                 | 99.15                   | 4.47                      | 23.161            | 0                        |                              |  |
| 1,400.00                     | 1,398.08              | 1,387.71              | 1,386.53              | 2.43             | 2.40          | -118.77               | 115.09                 | 110.27                  | 4.82                      | 23.855            | 0                        |                              |  |
| 1,500.00                     | 1,497.38              | 1,486.62              | 1,484.47              | 2.61             | 2.58          | -117.95               | 127.63                 | 122.45                  | 5.18                      | 24.638            | 0                        |                              |  |
| 1,600.00                     | 1,596.68              | 1,585.82              | 1,582.69              | 2.79             | 2.76          | -117.25               | 140.20                 | 134.66                  | 5.54                      | 25.319            | 0                        |                              |  |
| 1,700.00                     | 1,695.97              | 1,685.01              | 1,680.91              | 2.97             | 2.94          | -116.67               | 152.79                 | 146.89                  | 5.90                      | 25.915            | 0                        |                              |  |
| 1,800.00                     | 1,795.27              | 1,784.20              | 1,779.13              | 3.15             | 3.12          | -116.18               | 165.39                 | 159.14                  | 6.26                      | 26.440            | 0                        |                              |  |
| 1,900.00                     | 1,894.57              | 1,883.40              | 1,877.34              | 3.33             | 3.30          | -115.76               | 178.01                 | 171.39                  | 6.62                      | 26.906            | 0                        |                              |  |
| 2,000.00                     | 1,993.87              | 1,982.59              | 1,975.56              | 3.52             | 3.49          | -115.40               | 190.63                 | 183.65                  | 6.98                      | 27.322            | 0                        |                              |  |
| 2,100.00                     | 2,093.17              | 2,081.79              | 2,073.78              | 3.70             | 3.67          | -115.08               | 203.26                 | 195.92                  | 7.34                      | 27.696            | 0                        |                              |  |
| 2,200.00                     | 2,192.46              | 2,180.98              | 2,172.00              | 3.88             | 3.85          | -114.79               | 215.89                 | 208.19                  | 7.70                      | 28.033            | 0                        |                              |  |
| 2,300.00                     | 2,291.76              | 2,280.17              | 2,270.21              | 4.06             | 4.04          | -114.54               | 228.53                 | 220.46                  | 8.06                      | 28.340            | 0                        |                              |  |
| 2,400.00                     | 2,391.06              | 2,379.37              | 2,368.43              | 4.25             | 4.22          | -114.32               | 241.17                 | 232.74                  | 8.43                      | 28.619            | 0                        |                              |  |
| 2,500.00                     | 2,490.36              | 2,478.56              | 2,466.65              | 4.43             | 4.41          | -114.11               | 253.82                 | 245.02                  | 8.79                      | 28.874            | 0                        |                              |  |
| 2,600.00                     | 2,589.66              | 2,577.75              | 2,564.87              | 4.62             | 4.59          | -113.93               | 266.46                 | 257.31                  | 9.15                      | 29.108            | 0                        |                              |  |
| 2,700.00                     | 2,688.95              | 2,676.95              | 2,663.09              | 4.80             | 4.78          | -113.76               | 279.11                 | 269.60                  | 9.52                      | 29.324            | 0                        |                              |  |
| 2,800.00                     | 2,788.25              | 2,776.14              | 2,761.30              | 4.98             | 4.96          | -113.61               | 291.77                 | 281.88                  | 9.88                      | 29.524            | 0                        |                              |  |
| 2,900.00                     | 2,887.55              | 2,875.33              | 2,859.52              | 5.17             | 5.15          | -113.47               | 304.42                 | 294.18                  | 10.25                     | 29.708            | 0                        |                              |  |
| 3,000.00                     | 2,986.85              | 2,974.53              | 2,957.74              | 5.35             | 5.34          | -113.34               | 317.08                 | 306.47                  | 10.61                     | 29.880            | 0                        |                              |  |
| 3,100.00                     | 3,086.15              | 3,073.72              | 3,055.96              | 5.54             | 5.52          | -113.23               | 329.74                 | 318.76                  | 10.98                     | 30.040            | 0                        |                              |  |
| 3,200.00                     | 3,185.44              | 3,172.91              | 3,154.17              | 5.72             | 5.71          | -113.12               | 342.40                 | 331.05                  | 11.34                     | 30.190            | 0                        |                              |  |
| 3,300.00                     | 3,284.74              | 3,272.11              | 3,252.39              | 5.90             | 5.89          | -113.01               | 355.06                 | 343.35                  | 11.71                     | 30.329            | 0                        |                              |  |
| 3,400.00                     | 3,384.04              | 3,371.30              | 3,350.61              | 6.09             | 6.08          | -112.92               | 367.72                 | 355.65                  | 12.07                     | 30.460            | 0                        |                              |  |
| 3,500.00                     | 3,483.34              | 3,470.49              | 3,448.83              | 6.27             | 6.27          | -112.83               | 380.38                 | 367.94                  | 12.44                     | 30.583            | 0                        |                              |  |
| 3,600.00                     | 3,582.64              | 3,569.69              | 3,547.04              | 6.46             | 6.45          | -112.75               | 393.04                 | 380.24                  | 12.80                     | 30.699            | 0                        |                              |  |
| 3,700.00                     | 3,681.94              | 3,668.88              | 3,645.26              | 6.64             | 6.64          | -112.67               | 405.71                 | 392.54                  | 13.17                     | 30.808            | 0                        |                              |  |
| 3,800.00                     | 3,781.23              | 3,768.07              | 3,743.48              | 6.83             | 6.83          | -112.60               | 418.37                 | 404.84                  | 13.53                     | 30.911            | 0                        |                              |  |
| 3,900.00                     | 3,880.53              | 3,867.27              | 3,841.70              | 7.01             | 7.01          | -112.53               | 431.04                 | 417.14                  | 13.90                     | 31.009            | 0                        |                              |  |
| 4,000.00                     | 3,979.83              | 3,966.46              | 3,939.91              | 7.20             | 7.20          | -112.46               | 443.70                 | 429.44                  | 14.27                     | 31.101            | 0                        |                              |  |
| 4,100.00                     | 4,079.13              | 4,065.65              | 4,038.13              | 7.38             | 7.39          | -112.40               | 456.37                 | 441.74                  | 14.63                     | 31.189            | 0                        |                              |  |
| 4,200.00                     | 4,178.43              | 4,164.85              | 4,136.35              | 7.56             | 7.57          | -112.34               | 469.04                 | 454.04                  | 15.00                     | 31.273            | 0                        |                              |  |
| 4,300.00                     | 4,277.72              | 4,264.04              | 4,234.57              | 7.75             | 7.76          | -112.29               | 481.70                 | 466.34                  | 15.36                     | 31.352            | 0                        |                              |  |
| 4,400.00                     | 4,377.02              | 4,363.23              | 4,332.78              | 7.93             | 7.95          | -112.24               | 494.37                 | 478.64                  | 15.73                     | 31.428            | 0                        |                              |  |
| 4,500.00                     | 4,476.32              | 4,462.43              | 4,431.00              | 8.12             | 8.13          | -112.19               | 507.04                 | 490.94                  | 16.10                     | 31.500            | 0                        |                              |  |
| 4,600.00                     | 4,575.62              | 4,561.62              | 4,529.22              | 8.30             | 8.32          | -112.14               | 519.71                 | 503.24                  | 16.46                     | 31.568            | 0                        |                              |  |
| 4,700.00                     | 4,674.92              | 4,660.81              | 4,627.44              | 8.49             | 8.51          | -112.09               | 532.38                 | 515.55                  | 16.83                     | 31.634            | 0                        |                              |  |
| 4,800.00                     | 4,774.21              | 4,760.01              | 4,725.65              | 8.67             | 8.70          | -112.05               | 545.04                 | 527.85                  | 17.20                     | 31.697            | 0                        |                              |  |
| 4,900.00                     | 4,873.51              | 4,859.20              | 4,823.87              | 8.86             | 8.88          | -112.01               | 557.71                 | 540.15                  | 17.56                     | 31.757            | 0                        |                              |  |
| 5,000.00                     | 4,972.81              | 4,958.39              | 4,922.09              | 9.04             | 9.07          | -111.97               | 570.38                 | 552.45                  | 17.93                     | 31.815            | 0                        |                              |  |
| 5,100.00                     | 5,072.11              | 5,057.59              | 5,020.31              | 9.23             | 9.26          | -111.93               | 583.05                 | 564.76                  | 18.29                     | 31.870            | 0                        |                              |  |
| 5,200.00                     | 5,171.41              | 5,156.78              | 5,118.53              | 9.41             | 9.44          | -111.90               | 595.72                 | 577.06                  | 18.66                     | 31.923            | 0                        |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #7 - Original Hole - Rev 0 | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision | Warning   |                    |           |
| 5,300.00                     | 5,270.70              | 5,255.98              | 5,216.74              | 9.60             | 9.63          | -111.87               | 608.39                 | 589.37                  | 19.03                     | 31.975            | 0                        |                          |   |                    |           |
| 5,400.00                     | 5,370.00              | 5,355.17              | 5,314.96              | 9.78             | 9.82          | -111.83               | 621.06                 | 601.67                  | 19.39                     | 32.024            | 0                        |                          |   |                    |           |
| 5,500.00                     | 5,469.30              | 5,454.36              | 5,413.18              | 9.97             | 10.01         | -111.80               | 633.73                 | 613.97                  | 19.76                     | 32.071            | 0                        |                          |   |                    |           |
| 5,600.00                     | 5,568.60              | 5,553.56              | 5,511.40              | 10.15            | 10.19         | -111.77               | 646.40                 | 626.28                  | 20.13                     | 32.116            | 0                        |                          |   |                    |           |
| 5,700.00                     | 5,667.90              | 5,652.75              | 5,609.61              | 10.34            | 10.38         | -111.74               | 659.08                 | 638.58                  | 20.49                     | 32.160            | 0                        |                          |   |                    |           |
| 5,800.00                     | 5,767.20              | 5,751.94              | 5,707.83              | 10.52            | 10.57         | -111.71               | 671.75                 | 650.89                  | 20.86                     | 32.202            | 0                        |                          |   |                    |           |
| 5,900.00                     | 5,866.49              | 5,851.14              | 5,806.05              | 10.71            | 10.76         | -111.69               | 684.42                 | 663.19                  | 21.23                     | 32.243            | 0                        |                          |   |                    |           |
| 6,000.00                     | 5,965.79              | 5,950.33              | 5,904.27              | 10.89            | 10.94         | -111.66               | 697.09                 | 675.50                  | 21.59                     | 32.283            | 0                        |                          |   |                    |           |
| 6,100.00                     | 6,065.09              | 6,049.52              | 6,002.48              | 11.08            | 11.13         | -111.64               | 709.76                 | 687.80                  | 21.96                     | 32.321            | 0                        |                          |   |                    |           |
| 6,200.00                     | 6,164.39              | 6,148.72              | 6,100.70              | 11.26            | 11.32         | -111.61               | 722.43                 | 700.11                  | 22.33                     | 32.357            | 0                        |                          |   |                    |           |
| 6,237.42                     | 6,201.55              | 6,185.84              | 6,137.46              | 11.33            | 11.39         | -111.60               | 727.18                 | 704.71                  | 22.46                     | 32.371            | 0                        |                          |   |                    |           |
| 6,300.00                     | 6,263.76              | 6,258.65              | 6,209.67              | 11.45            | 11.52         | -111.72               | 734.42                 | 711.70                  | 22.72                     | 32.331            | 0                        |                          |   |                    |           |
| 6,400.00                     | 6,363.44              | 6,376.20              | 6,326.68              | 11.62            | 11.73         | -111.85               | 742.99                 | 719.88                  | 23.11                     | 32.150            | 0                        |                          |   |                    |           |
| 6,500.00                     | 6,463.34              | 6,494.25              | 6,444.54              | 11.79            | 11.93         | -111.92               | 747.84                 | 724.35                  | 23.49                     | 31.834            | 0                        |                          |   |                    |           |
| 6,577.05                     | 6,540.38              | 6,585.37              | 6,535.65              | 11.92            | 12.09         | -179.84               | 749.03                 | 725.68                  | 23.34                     | 32.088            | 0                        |                          |   |                    |           |
| 6,600.00                     | 6,563.33              | 6,609.05              | 6,559.33              | 11.96            | 12.12         | -179.84               | 749.03                 | 725.61                  | 23.42                     | 31.979            | 0                        |                          |   |                    |           |
| 6,677.05                     | 6,640.38              | 6,686.10              | 6,636.38              | 12.09            | 12.25         | -179.84               | 749.03                 | 725.34                  | 23.69                     | 31.622            | 0                        |                          |   |                    |           |
| 6,700.00                     | 6,663.33              | 6,709.11              | 6,659.39              | 12.13            | 12.29         | 90.17                 | 749.03                 | 724.84                  | 24.19                     | 30.964            | 0                        |                          |   |                    |           |
| 6,750.00                     | 6,713.17              | 6,759.30              | 6,709.44              | 12.20            | 12.37         | 90.19                 | 749.03                 | 724.69                  | 24.34                     | 30.768            | 0                        |                          |   |                    |           |
| 6,800.00                     | 6,762.57              | 6,809.50              | 6,759.08              | 12.28            | 12.44         | 90.21                 | 749.03                 | 724.54                  | 24.49                     | 30.587            | 0                        |                          |   |                    |           |
| 6,850.00                     | 6,811.21              | 6,859.73              | 6,808.01              | 12.34            | 12.50         | 90.23                 | 749.03                 | 724.41                  | 24.62                     | 30.419            | 0                        |                          |   |                    |           |
| 6,900.00                     | 6,858.80              | 6,909.98              | 6,855.91              | 12.41            | 12.57         | 90.25                 | 749.03                 | 724.28                  | 24.75                     | 30.263            | 0                        |                          |   |                    |           |
| 6,950.00                     | 6,905.04              | 6,960.25              | 6,902.49              | 12.47            | 12.63         | 90.27                 | 749.04                 | 724.16                  | 24.87                     | 30.117            | 0                        |                          |   |                    |           |
| 7,000.00                     | 6,949.66              | 7,010.53              | 6,947.45              | 12.52            | 12.68         | 90.28                 | 749.04                 | 724.05                  | 24.99                     | 29.978            | 0                        |                          |   |                    |           |
| 7,050.00                     | 6,992.36              | 7,060.83              | 6,990.51              | 12.58            | 12.74         | 90.30                 | 749.04                 | 723.94                  | 25.10                     | 29.844            | 0                        |                          |   |                    |           |
| 7,100.00                     | 7,032.90              | 7,111.15              | 7,031.40              | 12.63            | 12.79         | 90.31                 | 749.04                 | 723.83                  | 25.21                     | 29.714            | 0                        |                          |   |                    |           |
| 7,150.00                     | 7,071.01              | 7,161.47              | 7,069.85              | 12.69            | 12.85         | 90.32                 | 749.04                 | 723.72                  | 25.32                     | 29.583            | 0                        |                          |   |                    |           |
| 7,200.00                     | 7,106.47              | 7,211.81              | 7,105.63              | 12.74            | 12.90         | 90.33                 | 749.04                 | 723.60                  | 25.43                     | 29.449            | 0                        |                          |   |                    |           |
| 7,250.00                     | 7,139.06              | 7,262.16              | 7,138.50              | 12.80            | 12.96         | 90.34                 | 749.04                 | 723.48                  | 25.56                     | 29.310            | 0                        |                          |   |                    |           |
| 7,300.00                     | 7,168.57              | 7,312.51              | 7,168.26              | 12.86            | 13.02         | 90.34                 | 749.04                 | 723.36                  | 25.69                     | 29.162            | 0                        |                          |   |                    |           |
| 7,350.00                     | 7,194.82              | 7,362.86              | 7,194.73              | 12.93            | 13.08         | 90.34                 | 749.04                 | 723.22                  | 25.83                     | 29.004            | 0                        |                          |   |                    |           |
| 7,400.00                     | 7,217.66              | 7,413.22              | 7,217.73              | 13.00            | 13.15         | 90.34                 | 749.04                 | 723.06                  | 25.98                     | 28.833            | 0                        |                          |   |                    |           |
| 7,450.00                     | 7,236.94              | 7,463.57              | 7,237.12              | 13.07            | 13.22         | 90.34                 | 749.04                 | 722.89                  | 26.15                     | 28.648            | 0                        |                          |   |                    |           |
| 7,500.00                     | 7,252.54              | 7,513.92              | 7,252.78              | 13.15            | 13.30         | 90.34                 | 749.04                 | 722.71                  | 26.33                     | 28.447            | 0                        |                          |   |                    |           |
| 7,550.00                     | 7,264.36              | 7,564.27              | 7,264.60              | 13.25            | 13.39         | 90.33                 | 749.04                 | 722.51                  | 26.53                     | 28.231            | 0                        |                          |   |                    |           |
| 7,600.00                     | 7,272.34              | 7,614.60              | 7,272.53              | 13.36            | 13.49         | 90.32                 | 749.04                 | 722.29                  | 26.75                     | 27.999            | 0                        |                          |   |                    |           |
| 7,650.00                     | 7,276.43              | 7,664.93              | 7,276.50              | 13.49            | 13.60         | 90.31                 | 749.04                 | 722.05                  | 26.99                     | 27.754            | 0                        |                          |   |                    |           |
| 7,677.05                     | 7,277.00              | 7,692.14              | 7,277.00              | 13.55            | 13.67         | 90.31                 | 749.04                 | 721.92                  | 27.12                     | 27.617            | 0                        |                          |   |                    |           |
| 7,700.00                     | 7,277.00              | 7,715.09              | 7,277.00              | 13.62            | 13.73         | 90.31                 | 749.04                 | 721.80                  | 27.24                     | 27.496            | 0                        |                          |   |                    |           |
| 7,800.00                     | 7,277.00              | 7,815.09              | 7,277.00              | 13.90            | 14.01         | 90.31                 | 749.04                 | 721.25                  | 27.79                     | 26.952            | 0                        |                          |   |                    |           |
| 7,900.00                     | 7,277.00              | 7,915.09              | 7,277.00              | 14.20            | 14.32         | 90.31                 | 749.04                 | 720.64                  | 28.40                     | 26.374            | 0                        |                          |   |                    |           |
| 8,000.00                     | 7,277.00              | 8,015.09              | 7,277.00              | 14.54            | 14.66         | 90.31                 | 749.04                 | 719.97                  | 29.07                     | 25.771            | 0                        |                          |   |                    |           |
| 8,100.00                     | 7,277.00              | 8,115.09              | 7,277.00              | 14.90            | 15.01         | 90.31                 | 749.04                 | 719.26                  | 29.78                     | 25.151            | 0                        |                          |   |                    |           |
| 8,200.00                     | 7,277.00              | 8,215.09              | 7,277.00              | 15.28            | 15.40         | 90.31                 | 749.04                 | 718.49                  | 30.55                     | 24.522            | 0                        |                          |   |                    |           |
| 8,300.00                     | 7,277.00              | 8,315.09              | 7,277.00              | 15.69            | 15.80         | 90.31                 | 749.04                 | 717.68                  | 31.36                     | 23.889            | 0                        |                          |   |                    |           |
| 8,400.00                     | 7,277.00              | 8,415.09              | 7,277.00              | 16.11            | 16.22         | 90.31                 | 749.04                 | 716.83                  | 32.21                     | 23.258            | 0                        |                          |   |                    |           |
| 8,500.00                     | 7,277.00              | 8,515.09              | 7,277.00              | 16.56            | 16.67         | 90.31                 | 749.04                 | 715.94                  | 33.09                     | 22.634            | 0                        |                          |   |                    |           |
| 8,600.00                     | 7,277.00              | 8,615.09              | 7,277.00              | 17.02            | 17.13         | 90.31                 | 749.04                 | 715.02                  | 34.02                     | 22.020            | 0                        |                          |   |                    |           |
| 8,700.00                     | 7,277.00              | 8,715.09              | 7,277.00              | 17.49            | 17.60         | 90.31                 | 749.04                 | 714.07                  | 34.97                     | 21.418            | 0                        |                          |   |                    |           |
| 8,800.00                     | 7,277.00              | 8,815.09              | 7,277.00              | 17.99            | 18.09         | 90.31                 | 749.04                 | 713.08                  | 35.96                     | 20.832            | 0                        |                          |   |                    |           |
| 8,900.00                     | 7,277.00              | 8,915.09              | 7,277.00              | 18.49            | 18.60         | 90.31                 | 749.04                 | 712.07                  | 36.97                     | 20.261            | 0                        |                          |   |                    |           |
| 9,000.00                     | 7,277.00              | 9,015.09              | 7,277.00              | 19.01            | 19.11         | 90.31                 | 749.04                 | 711.03                  | 38.01                     | 19.708            | 0                        |                          |   |                    |           |
| 9,100.00                     | 7,277.00              | 9,115.09              | 7,277.00              | 19.54            | 19.64         | 90.31                 | 749.04                 | 709.97                  | 39.07                     | 19.173            | 0                        |                          |   |                    |           |
| 9,200.00                     | 7,277.00              | 9,215.09              | 7,277.00              | 20.08            | 20.18         | 90.31                 | 749.04                 | 708.89                  | 40.15                     | 18.656            | 0                        |                          |   |                    |           |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #7 - Original Hole - Rev 0 |  | Offset Site Error: |  | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|--------------------|--|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                    |  |           |
| 9,300.00                     | 7,277.00              | 9,315.09              | 7,277.00              | 20.63            | 20.73         | 90.31                 | 749.04                 | 707.79                  | 41.25                     | 18.158            | 0                        |                          |   |  |                    |  |           |
| 9,400.00                     | 7,277.00              | 9,415.09              | 7,277.00              | 21.19            | 21.29         | 90.31                 | 749.04                 | 706.67                  | 42.37                     | 17.678            | 0                        |                          |   |  |                    |  |           |
| 9,500.00                     | 7,277.00              | 9,515.09              | 7,277.00              | 21.76            | 21.85         | 90.31                 | 749.04                 | 705.53                  | 43.51                     | 17.216            | 0                        |                          |   |  |                    |  |           |
| 9,600.00                     | 7,277.00              | 9,615.09              | 7,277.00              | 22.34            | 22.43         | 90.31                 | 749.04                 | 704.38                  | 44.66                     | 16.772            | 0                        |                          |   |  |                    |  |           |
| 9,700.00                     | 7,277.00              | 9,715.09              | 7,277.00              | 22.92            | 23.01         | 90.31                 | 749.04                 | 703.21                  | 45.83                     | 16.345            | 0                        |                          |   |  |                    |  |           |
| 9,800.00                     | 7,277.00              | 9,815.09              | 7,277.00              | 23.51            | 23.60         | 90.31                 | 749.04                 | 702.03                  | 47.00                     | 15.935            | 0                        |                          |   |  |                    |  |           |
| 9,900.00                     | 7,277.00              | 9,915.09              | 7,277.00              | 24.10            | 24.19         | 90.31                 | 749.04                 | 700.84                  | 48.20                     | 15.541            | 0                        |                          |   |  |                    |  |           |
| 10,000.00                    | 7,277.00              | 10,015.09             | 7,277.00              | 24.71            | 24.79         | 90.31                 | 749.04                 | 699.64                  | 49.40                     | 15.163            | 0                        |                          |   |  |                    |  |           |
| 10,100.00                    | 7,277.00              | 10,115.09             | 7,277.00              | 25.31            | 25.39         | 90.31                 | 749.04                 | 698.43                  | 50.61                     | 14.799            | 0                        |                          |   |  |                    |  |           |
| 10,200.00                    | 7,277.00              | 10,215.09             | 7,277.00              | 25.92            | 26.00         | 90.31                 | 749.04                 | 697.20                  | 51.84                     | 14.450            | 0                        |                          |   |  |                    |  |           |
| 10,300.00                    | 7,277.00              | 10,315.09             | 7,277.00              | 26.54            | 26.62         | 90.31                 | 749.04                 | 695.97                  | 53.07                     | 14.115            | 0                        |                          |   |  |                    |  |           |
| 10,400.00                    | 7,277.00              | 10,415.09             | 7,277.00              | 27.16            | 27.24         | 90.31                 | 749.04                 | 694.73                  | 54.31                     | 13.792            | 0                        |                          |   |  |                    |  |           |
| 10,500.00                    | 7,277.00              | 10,515.09             | 7,277.00              | 27.78            | 27.86         | 90.31                 | 749.04                 | 693.48                  | 55.56                     | 13.482            | 0                        |                          |   |  |                    |  |           |
| 10,600.00                    | 7,277.00              | 10,615.09             | 7,277.00              | 28.41            | 28.49         | 90.31                 | 749.04                 | 692.22                  | 56.81                     | 13.184            | 0                        |                          |   |  |                    |  |           |
| 10,700.00                    | 7,277.00              | 10,715.09             | 7,277.00              | 29.04            | 29.12         | 90.31                 | 749.04                 | 690.96                  | 58.08                     | 12.897            | 0                        |                          |   |  |                    |  |           |
| 10,800.00                    | 7,277.00              | 10,815.09             | 7,277.00              | 29.68            | 29.75         | 90.31                 | 749.04                 | 689.69                  | 59.35                     | 12.621            | 0                        |                          |   |  |                    |  |           |
| 10,900.00                    | 7,277.00              | 10,915.09             | 7,277.00              | 30.32            | 30.39         | 90.31                 | 749.04                 | 688.42                  | 60.62                     | 12.356            | 0                        |                          |   |  |                    |  |           |
| 11,000.00                    | 7,277.00              | 11,015.09             | 7,277.00              | 30.96            | 31.03         | 90.31                 | 749.04                 | 687.13                  | 61.90                     | 12.100            | 0                        |                          |   |  |                    |  |           |
| 11,100.00                    | 7,277.00              | 11,115.09             | 7,277.00              | 31.60            | 31.67         | 90.31                 | 749.04                 | 685.85                  | 63.19                     | 11.854            | 0                        |                          |   |  |                    |  |           |
| 11,200.00                    | 7,277.00              | 11,215.09             | 7,277.00              | 32.25            | 32.31         | 90.31                 | 749.04                 | 684.56                  | 64.48                     | 11.616            | 0                        |                          |   |  |                    |  |           |
| 11,300.00                    | 7,277.00              | 11,315.09             | 7,277.00              | 32.89            | 32.96         | 90.31                 | 749.04                 | 683.26                  | 65.78                     | 11.387            | 0                        |                          |   |  |                    |  |           |
| 11,400.00                    | 7,277.00              | 11,415.09             | 7,277.00              | 33.54            | 33.61         | 90.31                 | 749.04                 | 681.96                  | 67.08                     | 11.167            | 0                        |                          |   |  |                    |  |           |
| 11,500.00                    | 7,277.00              | 11,515.09             | 7,277.00              | 34.20            | 34.26         | 90.31                 | 749.04                 | 680.65                  | 68.38                     | 10.953            | 0                        |                          |   |  |                    |  |           |
| 11,600.00                    | 7,277.00              | 11,615.09             | 7,277.00              | 34.85            | 34.91         | 90.31                 | 749.04                 | 679.34                  | 69.69                     | 10.748            | 0                        |                          |   |  |                    |  |           |
| 11,700.00                    | 7,277.00              | 11,715.09             | 7,277.00              | 35.51            | 35.57         | 90.31                 | 749.04                 | 678.03                  | 71.01                     | 10.549            | 0                        |                          |   |  |                    |  |           |
| 11,800.00                    | 7,277.00              | 11,815.09             | 7,277.00              | 36.16            | 36.23         | 90.31                 | 749.04                 | 676.72                  | 72.32                     | 10.357            | 0                        |                          |   |  |                    |  |           |
| 11,900.00                    | 7,277.00              | 11,915.09             | 7,277.00              | 36.82            | 36.88         | 90.31                 | 749.04                 | 675.40                  | 73.64                     | 10.171            | 0                        |                          |   |  |                    |  |           |
| 12,000.00                    | 7,277.00              | 12,015.09             | 7,277.00              | 37.49            | 37.54         | 90.31                 | 749.04                 | 674.07                  | 74.97                     | 9.992             | 0                        |                          |   |  |                    |  |           |
| 12,100.00                    | 7,277.00              | 12,115.09             | 7,277.00              | 38.15            | 38.21         | 90.31                 | 749.04                 | 672.75                  | 76.29                     | 9.818             | 0                        |                          |   |  |                    |  |           |
| 12,200.00                    | 7,277.00              | 12,215.09             | 7,277.00              | 38.81            | 38.87         | 90.31                 | 749.04                 | 671.42                  | 77.62                     | 9.650             | 0                        |                          |   |  |                    |  |           |
| 12,300.00                    | 7,277.00              | 12,315.09             | 7,277.00              | 39.48            | 39.54         | 90.31                 | 749.04                 | 670.09                  | 78.95                     | 9.487             | 0                        |                          |   |  |                    |  |           |
| 12,400.00                    | 7,277.00              | 12,415.09             | 7,277.00              | 40.15            | 40.20         | 90.31                 | 749.04                 | 668.75                  | 80.29                     | 9.330             | 0                        |                          |   |  |                    |  |           |
| 12,500.00                    | 7,277.00              | 12,515.09             | 7,277.00              | 40.81            | 40.87         | 90.31                 | 749.04                 | 667.42                  | 81.62                     | 9.177             | 0                        |                          |   |  |                    |  |           |
| 12,600.00                    | 7,277.00              | 12,615.09             | 7,277.00              | 41.48            | 41.54         | 90.31                 | 749.04                 | 666.08                  | 82.96                     | 9.029             | 0                        |                          |   |  |                    |  |           |
| 12,700.00                    | 7,277.00              | 12,715.09             | 7,277.00              | 42.15            | 42.21         | 90.31                 | 749.04                 | 664.74                  | 84.30                     | 8.885             | 0                        |                          |   |  |                    |  |           |
| 12,800.00                    | 7,277.00              | 12,815.09             | 7,277.00              | 42.82            | 42.88         | 90.31                 | 749.04                 | 663.39                  | 85.64                     | 8.746             | 0                        |                          |   |  |                    |  |           |
| 12,900.00                    | 7,277.00              | 12,915.09             | 7,277.00              | 43.50            | 43.55         | 90.31                 | 749.04                 | 662.05                  | 86.99                     | 8.611             | 0                        |                          |   |  |                    |  |           |
| 13,000.00                    | 7,277.00              | 13,015.09             | 7,277.00              | 44.17            | 44.22         | 90.31                 | 749.04                 | 660.70                  | 88.34                     | 8.479             | 0                        |                          |   |  |                    |  |           |
| 13,100.00                    | 7,277.00              | 13,115.09             | 7,277.00              | 44.85            | 44.90         | 90.31                 | 749.04                 | 659.35                  | 89.69                     | 8.352             | 0                        |                          |   |  |                    |  |           |
| 13,200.00                    | 7,277.00              | 13,215.09             | 7,277.00              | 45.52            | 45.57         | 90.31                 | 749.04                 | 658.00                  | 91.04                     | 8.228             | 0                        |                          |   |  |                    |  |           |
| 13,300.00                    | 7,277.00              | 13,315.09             | 7,277.00              | 46.20            | 46.25         | 90.31                 | 749.04                 | 656.65                  | 92.39                     | 8.107             | 0                        |                          |   |  |                    |  |           |
| 13,400.00                    | 7,277.00              | 13,415.09             | 7,277.00              | 46.87            | 46.92         | 90.31                 | 749.04                 | 655.29                  | 93.74                     | 7.990             | 0                        |                          |   |  |                    |  |           |
| 13,500.00                    | 7,277.00              | 13,515.09             | 7,277.00              | 47.55            | 47.60         | 90.31                 | 749.04                 | 653.94                  | 95.10                     | 7.876             | 0                        |                          |   |  |                    |  |           |
| 13,600.00                    | 7,277.00              | 13,615.09             | 7,277.00              | 48.23            | 48.28         | 90.31                 | 749.04                 | 652.58                  | 96.46                     | 7.766             | 0                        |                          |   |  |                    |  |           |
| 13,700.00                    | 7,277.00              | 13,715.09             | 7,277.00              | 48.91            | 48.96         | 90.31                 | 749.04                 | 651.22                  | 97.81                     | 7.658             | 0                        |                          |   |  |                    |  |           |
| 13,800.00                    | 7,277.00              | 13,815.09             | 7,277.00              | 49.59            | 49.64         | 90.31                 | 749.04                 | 649.86                  | 99.17                     | 7.553             | 0                        |                          |   |  |                    |  |           |
| 13,900.00                    | 7,277.00              | 13,915.09             | 7,277.00              | 50.27            | 50.32         | 90.31                 | 749.04                 | 648.50                  | 100.54                    | 7.450             | 0                        |                          |   |  |                    |  |           |
| 14,000.00                    | 7,277.00              | 14,015.09             | 7,277.00              | 50.95            | 51.00         | 90.31                 | 749.04                 | 647.14                  | 101.90                    | 7.351             | 0                        |                          |   |  |                    |  |           |
| 14,100.00                    | 7,277.00              | 14,115.09             | 7,277.00              | 51.63            | 51.68         | 90.31                 | 749.04                 | 645.78                  | 103.26                    | 7.254             | 0                        |                          |   |  |                    |  |           |
| 14,200.00                    | 7,277.00              | 14,215.09             | 7,277.00              | 52.31            | 52.36         | 90.31                 | 749.04                 | 644.41                  | 104.63                    | 7.159             | 0                        |                          |   |  |                    |  |           |
| 14,300.00                    | 7,277.00              | 14,315.09             | 7,277.00              | 53.00            | 53.04         | 90.31                 | 749.04                 | 643.05                  | 105.99                    | 7.067             | 0                        |                          |   |  |                    |  |           |
| 14,400.00                    | 7,277.00              | 14,415.09             | 7,277.00              | 53.68            | 53.73         | 90.31                 | 749.04                 | 641.68                  | 107.36                    | 6.977             | 0                        |                          |   |  |                    |  |           |
| 14,500.00                    | 7,277.00              | 14,515.09             | 7,277.00              | 54.36            | 54.41         | 90.31                 | 749.04                 | 640.31                  | 108.73                    | 6.889             | 0                        |                          |   |  |                    |  |           |
| 14,600.00                    | 7,277.00              | 14,615.09             | 7,277.00              | 55.05            | 55.09         | 90.31                 | 749.04                 | 638.94                  | 110.10                    | 6.803             | 0                        |                          |   |  |                    |  |           |

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



**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #7 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |                           |           |
| 14,700.00  | 7,277.00              | 14,715.09             | 7,277.00              | 55.73            | 55.78         | 90.31                 | 749.04                 | 637.57                  | 111.47                    | 6.720             | 0                       |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,815.09             | 7,277.00              | 56.42            | 56.46         | 90.31                 | 749.04                 | 636.20                  | 112.84                    | 6.638             | 0                       |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,915.09             | 7,277.00              | 57.11            | 57.15         | 90.31                 | 749.04                 | 634.83                  | 114.21                    | 6.559             | 0                       |                          |                           |           |
| 15,000.00  | 7,277.00              | 15,015.13             | 7,277.00              | 57.79            | 57.83         | 90.31                 | 749.04                 | 633.46                  | 115.58                    | 6.481             | 0                       |                          |                           |           |
| 15,048.84  | 7,277.00              | 15,063.98             | 7,277.00              | 58.13            | 58.17         | 90.31                 | 749.03                 | 632.78                  | 116.25                    | 6.443             | 0                       |                          | SF                        |           |





# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.67               | 111.96                 |                         |                           |                   |                          | CC, ES                       |  |
| 100.00                       | 100.00                | 95.00                 | 95.00                 | 0.15             | 0.14          | -179.67               | 111.85                 | 111.57                  | 0.29                      | 391.247           | 0                        |                              |  |
| 200.00                       | 200.00                | 195.00                | 195.00                | 0.32             | 0.31          | -179.67               | 111.85                 | 111.22                  | 0.63                      | 176.546           | 0                        |                              |  |
| 300.00                       | 300.00                | 295.00                | 295.00                | 0.50             | 0.49          | -179.67               | 111.85                 | 110.87                  | 0.98                      | 113.830           | 0                        |                              |  |
| 400.00                       | 400.00                | 395.00                | 395.00                | 0.67             | 0.66          | -179.67               | 111.85                 | 110.52                  | 1.33                      | 83.993            | 0                        |                              |  |
| 500.00                       | 500.00                | 495.00                | 495.00                | 0.84             | 0.84          | -179.67               | 111.85                 | 110.17                  | 1.68                      | 66.549            | 0                        |                              |  |
| 600.00                       | 600.00                | 595.00                | 595.00                | 1.02             | 1.01          | -179.67               | 111.85                 | 109.82                  | 2.03                      | 55.104            | 0                        |                              |  |
| 700.00                       | 700.00                | 695.00                | 695.00                | 1.19             | 1.19          | -179.67               | 111.85                 | 109.47                  | 2.38                      | 47.019            | 0                        |                              |  |
| 800.00                       | 800.00                | 795.00                | 795.00                | 1.37             | 1.36          | -179.67               | 111.85                 | 109.12                  | 2.73                      | 41.002            | 0                        |                              |  |
| 900.00                       | 900.00                | 895.00                | 895.00                | 1.54             | 1.53          | -179.67               | 111.85                 | 108.77                  | 3.08                      | 36.351            | 0                        |                              |  |
| 1,000.00                     | 999.98                | 992.46                | 992.45                | 1.72             | 1.70          | -111.98               | 113.56                 | 110.14                  | 3.42                      | 33.188            | 0                        |                              |  |
| 1,100.00                     | 1,099.84              | 1,089.60              | 1,089.47              | 1.89             | 1.87          | -112.49               | 118.93                 | 115.16                  | 3.77                      | 31.572            | 0                        |                              |  |
| 1,200.00                     | 1,199.45              | 1,186.35              | 1,185.88              | 2.07             | 2.05          | -113.19               | 127.96                 | 123.84                  | 4.11                      | 31.105            | 0                        |                              |  |
| 1,239.63                     | 1,238.83              | 1,224.54              | 1,223.85              | 2.14             | 2.11          | -113.50               | 132.54                 | 128.29                  | 4.25                      | 31.178            | 0                        |                              |  |
| 1,300.00                     | 1,298.78              | 1,282.56              | 1,281.43              | 2.25             | 2.22          | -113.90               | 140.38                 | 135.91                  | 4.46                      | 31.463            | 0                        |                              |  |
| 1,400.00                     | 1,398.08              | 1,378.82              | 1,376.61              | 2.43             | 2.39          | -113.76               | 155.08                 | 150.27                  | 4.81                      | 32.230            | 0                        |                              |  |
| 1,500.00                     | 1,497.38              | 1,477.62              | 1,474.12              | 2.61             | 2.57          | -113.36               | 170.52                 | 165.35                  | 5.17                      | 32.998            | 0                        |                              |  |
| 1,600.00                     | 1,596.68              | 1,576.41              | 1,571.64              | 2.79             | 2.76          | -113.03               | 185.97                 | 180.45                  | 5.53                      | 33.659            | 0                        |                              |  |
| 1,700.00                     | 1,695.97              | 1,675.20              | 1,669.15              | 2.97             | 2.94          | -112.75               | 201.43                 | 195.55                  | 5.88                      | 34.233            | 0                        |                              |  |
| 1,800.00                     | 1,795.27              | 1,774.00              | 1,766.67              | 3.15             | 3.12          | -112.50               | 216.89                 | 210.65                  | 6.24                      | 34.737            | 0                        |                              |  |
| 1,900.00                     | 1,894.57              | 1,872.79              | 1,864.19              | 3.33             | 3.31          | -112.29               | 232.35                 | 225.75                  | 6.60                      | 35.182            | 0                        |                              |  |
| 2,000.00                     | 1,993.87              | 1,971.59              | 1,961.70              | 3.52             | 3.49          | -112.11               | 247.82                 | 240.85                  | 6.97                      | 35.578            | 0                        |                              |  |
| 2,100.00                     | 2,093.17              | 2,070.38              | 2,059.22              | 3.70             | 3.68          | -111.95               | 263.29                 | 255.96                  | 7.33                      | 35.932            | 0                        |                              |  |
| 2,200.00                     | 2,192.46              | 2,169.17              | 2,156.74              | 3.88             | 3.87          | -111.80               | 278.76                 | 271.07                  | 7.69                      | 36.250            | 0                        |                              |  |
| 2,300.00                     | 2,291.76              | 2,267.97              | 2,254.25              | 4.06             | 4.06          | -111.67               | 294.23                 | 286.18                  | 8.05                      | 36.537            | 0                        |                              |  |
| 2,400.00                     | 2,391.06              | 2,366.76              | 2,351.77              | 4.25             | 4.24          | -111.56               | 309.70                 | 301.29                  | 8.42                      | 36.798            | 0                        |                              |  |
| 2,500.00                     | 2,490.36              | 2,465.55              | 2,449.29              | 4.43             | 4.43          | -111.45               | 325.18                 | 316.40                  | 8.78                      | 37.036            | 0                        |                              |  |
| 2,600.00                     | 2,589.66              | 2,564.35              | 2,546.80              | 4.62             | 4.62          | -111.36               | 340.65                 | 331.51                  | 9.14                      | 37.254            | 0                        |                              |  |
| 2,700.00                     | 2,688.95              | 2,663.14              | 2,644.32              | 4.80             | 4.81          | -111.27               | 356.13                 | 346.62                  | 9.51                      | 37.454            | 0                        |                              |  |
| 2,800.00                     | 2,788.25              | 2,761.94              | 2,741.84              | 4.98             | 5.00          | -111.19               | 371.61                 | 361.74                  | 9.87                      | 37.639            | 0                        |                              |  |
| 2,900.00                     | 2,887.55              | 2,860.73              | 2,839.35              | 5.17             | 5.19          | -111.12               | 387.09                 | 376.85                  | 10.24                     | 37.810            | 0                        |                              |  |
| 3,000.00                     | 2,986.85              | 2,959.52              | 2,936.87              | 5.35             | 5.38          | -111.05               | 402.56                 | 391.96                  | 10.60                     | 37.969            | 0                        |                              |  |
| 3,100.00                     | 3,086.15              | 3,058.32              | 3,034.39              | 5.54             | 5.56          | -110.98               | 418.04                 | 407.08                  | 10.97                     | 38.117            | 0                        |                              |  |
| 3,200.00                     | 3,185.44              | 3,157.11              | 3,131.90              | 5.72             | 5.75          | -110.93               | 433.52                 | 422.19                  | 11.33                     | 38.254            | 0                        |                              |  |
| 3,300.00                     | 3,284.74              | 3,255.90              | 3,229.42              | 5.90             | 5.94          | -110.87               | 449.00                 | 437.30                  | 11.70                     | 38.383            | 0                        |                              |  |
| 3,400.00                     | 3,384.04              | 3,354.70              | 3,326.94              | 6.09             | 6.13          | -110.82               | 464.48                 | 452.42                  | 12.06                     | 38.504            | 0                        |                              |  |
| 3,500.00                     | 3,483.34              | 3,453.49              | 3,424.45              | 6.27             | 6.32          | -110.77               | 479.96                 | 467.53                  | 12.43                     | 38.617            | 0                        |                              |  |
| 3,600.00                     | 3,582.64              | 3,552.29              | 3,521.97              | 6.46             | 6.51          | -110.73               | 495.44                 | 482.65                  | 12.79                     | 38.723            | 0                        |                              |  |
| 3,700.00                     | 3,681.94              | 3,651.08              | 3,619.48              | 6.64             | 6.70          | -110.69               | 510.92                 | 497.76                  | 13.16                     | 38.824            | 0                        |                              |  |
| 3,800.00                     | 3,781.23              | 3,749.87              | 3,717.00              | 6.83             | 6.89          | -110.65               | 526.40                 | 512.88                  | 13.53                     | 38.918            | 0                        |                              |  |
| 3,900.00                     | 3,880.53              | 3,848.67              | 3,814.52              | 7.01             | 7.08          | -110.61               | 541.89                 | 527.99                  | 13.89                     | 39.008            | 0                        |                              |  |
| 4,000.00                     | 3,979.83              | 3,947.46              | 3,912.03              | 7.20             | 7.27          | -110.58               | 557.37                 | 543.11                  | 14.26                     | 39.092            | 0                        |                              |  |
| 4,100.00                     | 4,079.13              | 4,046.25              | 4,009.55              | 7.38             | 7.46          | -110.54               | 572.85                 | 558.23                  | 14.62                     | 39.173            | 0                        |                              |  |
| 4,200.00                     | 4,178.43              | 4,145.05              | 4,107.07              | 7.56             | 7.65          | -110.51               | 588.33                 | 573.34                  | 14.99                     | 39.249            | 0                        |                              |  |
| 4,300.00                     | 4,277.72              | 4,243.84              | 4,204.58              | 7.75             | 7.85          | -110.48               | 603.81                 | 588.46                  | 15.36                     | 39.322            | 0                        |                              |  |
| 4,400.00                     | 4,377.02              | 4,342.64              | 4,302.10              | 7.93             | 8.04          | -110.45               | 619.30                 | 603.57                  | 15.72                     | 39.391            | 0                        |                              |  |
| 4,500.00                     | 4,476.32              | 4,441.43              | 4,399.62              | 8.12             | 8.23          | -110.43               | 634.78                 | 618.69                  | 16.09                     | 39.456            | 0                        |                              |  |
| 4,600.00                     | 4,575.62              | 4,540.22              | 4,497.13              | 8.30             | 8.42          | -110.40               | 650.26                 | 633.81                  | 16.45                     | 39.519            | 0                        |                              |  |
| 4,700.00                     | 4,674.92              | 4,639.02              | 4,594.65              | 8.49             | 8.61          | -110.38               | 665.74                 | 648.92                  | 16.82                     | 39.579            | 0                        |                              |  |
| 4,800.00                     | 4,774.21              | 4,737.81              | 4,692.17              | 8.67             | 8.80          | -110.35               | 681.23                 | 664.04                  | 17.19                     | 39.636            | 0                        |                              |  |
| 4,900.00                     | 4,873.51              | 4,836.60              | 4,789.68              | 8.86             | 8.99          | -110.33               | 696.71                 | 679.16                  | 17.55                     | 39.691            | 0                        |                              |  |
| 5,000.00                     | 4,972.81              | 4,935.40              | 4,887.20              | 9.04             | 9.18          | -110.31               | 712.19                 | 694.27                  | 17.92                     | 39.743            | 0                        |                              |  |
| 5,100.00                     | 5,072.11              | 5,034.19              | 4,984.72              | 9.23             | 9.37          | -110.29               | 727.67                 | 709.39                  | 18.29                     | 39.794            | 0                        |                              |  |
| 5,200.00                     | 5,171.41              | 5,132.99              | 5,082.23              | 9.41             | 9.56          | -110.27               | 743.16                 | 724.51                  | 18.65                     | 39.842            | 0                        |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #8 - Original Hole - Rev 0 |                              | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|------------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision | Warning   |                              |                              |  |
| 5,300.00                     | 5,270.70              | 5,231.78              | 5,179.75              | 9.60             | 9.75          | -110.25               | 758.64                 | 739.62                  | 19.02                     | 39.889            | 0                        |                          |   |                              |                              |  |
| 5,400.00                     | 5,370.00              | 5,330.57              | 5,277.26              | 9.78             | 9.94          | -110.23               | 774.12                 | 754.74                  | 19.39                     | 39.933            | 0                        |                          |   |                              |                              |  |
| 5,500.00                     | 5,469.30              | 5,429.37              | 5,374.78              | 9.97             | 10.13         | -110.21               | 789.61                 | 769.86                  | 19.75                     | 39.976            | 0                        |                          |   |                              |                              |  |
| 5,600.00                     | 5,568.60              | 5,528.16              | 5,472.30              | 10.15            | 10.32         | -110.20               | 805.09                 | 784.97                  | 20.12                     | 40.017            | 0                        |                          |   |                              |                              |  |
| 5,700.00                     | 5,667.90              | 5,626.96              | 5,569.81              | 10.34            | 10.52         | -110.18               | 820.57                 | 800.09                  | 20.49                     | 40.057            | 0                        |                          |   |                              |                              |  |
| 5,800.00                     | 5,767.20              | 5,725.75              | 5,667.33              | 10.52            | 10.71         | -110.17               | 836.06                 | 815.21                  | 20.85                     | 40.095            | 0                        |                          |   |                              |                              |  |
| 5,900.00                     | 5,866.49              | 5,824.54              | 5,764.85              | 10.71            | 10.90         | -110.15               | 851.54                 | 830.32                  | 21.22                     | 40.132            | 0                        |                          |   |                              |                              |  |
| 6,000.00                     | 5,965.79              | 5,923.34              | 5,862.36              | 10.89            | 11.09         | -110.14               | 867.03                 | 845.44                  | 21.59                     | 40.168            | 0                        |                          |   |                              |                              |  |
| 6,100.00                     | 6,065.09              | 6,039.55              | 5,977.25              | 11.08            | 11.31         | -110.17               | 881.89                 | 859.91                  | 21.98                     | 40.120            | 0                        |                          |   |                              |                              |  |
| 6,200.00                     | 6,164.39              | 6,166.61              | 6,103.52              | 11.26            | 11.54         | -110.44               | 893.87                 | 871.48                  | 22.39                     | 39.919            | 0                        |                          |   |                              |                              |  |
| 6,237.42                     | 6,201.55              | 6,214.31              | 6,151.05              | 11.33            | 11.62         | -110.61               | 897.56                 | 875.02                  | 22.55                     | 39.812            | 0                        |                          |   |                              |                              |  |
| 6,300.00                     | 6,263.76              | 6,294.21              | 6,230.82              | 11.45            | 11.76         | -111.00               | 902.52                 | 879.72                  | 22.81                     | 39.574            | 0                        |                          |   |                              |                              |  |
| 6,400.00                     | 6,363.44              | 6,421.87              | 6,358.44              | 11.62            | 11.97         | -111.56               | 906.94                 | 883.72                  | 23.21                     | 39.072            | 0                        |                          |   |                              |                              |  |
| 6,500.00                     | 6,463.34              | 6,521.78              | 6,458.34              | 11.79            | 12.13         | -111.85               | 908.58                 | 885.02                  | 23.56                     | 38.562            | 0                        |                          |   |                              |                              |  |
| 6,577.05                     | 6,540.38              | 6,598.74              | 6,535.12              | 11.92            | 12.25         | 179.87                | 908.96                 | 885.45                  | 23.51                     | 38.657            | 0                        |                          |   |                              |                              |  |
| 6,600.00                     | 6,563.33              | 6,621.34              | 6,557.49              | 11.96            | 12.28         | 179.67                | 908.98                 | 885.39                  | 23.59                     | 38.534            | 0                        |                          |   |                              |                              |  |
| 6,677.05                     | 6,640.38              | 6,695.07              | 6,629.47              | 12.09            | 12.37         | 178.67                | 909.22                 | 885.39                  | 23.84                     | 38.144            | 0                        |                          |   |                              |                              |  |
| 6,700.00                     | 6,663.33              | 6,716.34              | 6,649.85              | 12.13            | 12.40         | 88.30                 | 909.39                 | 885.20                  | 24.19                     | 37.592            | 0                        |                          |   |                              |                              |  |
| 6,750.00                     | 6,713.17              | 6,762.06              | 6,692.90              | 12.20            | 12.46         | 87.49                 | 909.90                 | 885.57                  | 24.33                     | 37.401            | 0                        |                          |   |                              |                              |  |
| 6,800.00                     | 6,762.57              | 6,807.01              | 6,734.03              | 12.28            | 12.51         | 86.70                 | 910.57                 | 886.12                  | 24.46                     | 37.233            | 0                        |                          |   |                              |                              |  |
| 6,850.00                     | 6,811.21              | 6,850.00              | 6,772.09              | 12.34            | 12.55         | 85.95                 | 911.40                 | 886.83                  | 24.57                     | 37.088            | 0                        |                          |   |                              |                              |  |
| 6,900.00                     | 6,858.80              | 6,894.80              | 6,810.22              | 12.41            | 12.60         | 85.19                 | 912.35                 | 887.67                  | 24.69                     | 36.958            | 0                        |                          |   |                              |                              |  |
| 6,950.00                     | 6,905.04              | 6,937.76              | 6,845.16              | 12.47            | 12.65         | 84.48                 | 913.42                 | 888.63                  | 24.79                     | 36.846            | 0                        |                          |   |                              |                              |  |
| 7,000.00                     | 6,949.66              | 6,980.18              | 6,877.91              | 12.52            | 12.69         | 83.80                 | 914.56                 | 889.67                  | 24.89                     | 36.748            | 0                        |                          |   |                              |                              |  |
| 7,050.00                     | 6,992.36              | 7,022.11              | 6,908.45              | 12.58            | 12.73         | 83.16                 | 915.76                 | 890.78                  | 24.98                     | 36.659            | 0                        |                          |   |                              |                              |  |
| 7,100.00                     | 7,032.90              | 7,063.59              | 6,936.75              | 12.63            | 12.78         | 82.55                 | 916.99                 | 891.92                  | 25.07                     | 36.578            | 0                        |                          |   |                              |                              |  |
| 7,150.00                     | 7,071.01              | 7,104.66              | 6,962.76              | 12.69            | 12.82         | 81.98                 | 918.22                 | 893.06                  | 25.16                     | 36.499            | 0                        |                          |   |                              |                              |  |
| 7,200.00                     | 7,106.47              | 7,145.38              | 6,986.47              | 12.74            | 12.87         | 81.45                 | 919.43                 | 894.19                  | 25.25                     | 36.418            | 0                        |                          |   |                              |                              |  |
| 7,250.00                     | 7,139.06              | 7,185.78              | 7,007.86              | 12.80            | 12.92         | 80.97                 | 920.60                 | 895.26                  | 25.34                     | 36.331            | 0                        |                          |   |                              |                              |  |
| 7,300.00                     | 7,168.57              | 7,225.89              | 7,026.90              | 12.86            | 12.97         | 80.54                 | 921.71                 | 896.27                  | 25.44                     | 36.232            | 0                        |                          |   |                              |                              |  |
| 7,350.00                     | 7,194.82              | 7,265.77              | 7,043.59              | 12.93            | 13.03         | 80.15                 | 922.73                 | 897.18                  | 25.55                     | 36.118            | 0                        |                          |   |                              |                              |  |
| 7,400.00                     | 7,217.66              | 7,305.43              | 7,057.91              | 13.00            | 13.08         | 79.82                 | 923.65                 | 897.98                  | 25.67                     | 35.984            | 0                        |                          |   |                              |                              |  |
| 7,450.00                     | 7,236.94              | 7,350.00              | 7,071.22              | 13.07            | 13.15         | 79.51                 | 924.46                 | 898.65                  | 25.81                     | 35.816            | 0                        |                          |   |                              |                              |  |
| 7,500.00                     | 7,252.54              | 7,384.26              | 7,079.41              | 13.15            | 13.21         | 79.30                 | 925.10                 | 899.15                  | 25.96                     | 35.641            | 0                        |                          |   |                              |                              |  |
| 7,550.00                     | 7,264.36              | 7,423.49              | 7,086.58              | 13.25            | 13.28         | 79.12                 | 925.62                 | 899.49                  | 26.13                     | 35.429            | 0                        |                          |   |                              |                              |  |
| 7,600.00                     | 7,272.34              | 7,462.64              | 7,091.34              | 13.36            | 13.36         | 79.00                 | 925.98                 | 899.67                  | 26.31                     | 35.189            | 0                        |                          |   |                              |                              |  |
| 7,650.00                     | 7,276.43              | 7,500.00              | 7,093.66              | 13.49            | 13.45         | 78.93                 | 926.19                 | 899.67                  | 26.52                     | 34.927            | 0                        |                          |   |                              |                              |  |
| 7,677.05                     | 7,277.00              | 7,523.45              | 7,094.00              | 13.55            | 13.50         | 78.92                 | 926.22                 | 899.58                  | 26.64                     | 34.762            | 0                        |                          |   |                              |                              |  |
| 7,700.00                     | 7,277.00              | 7,546.40              | 7,094.00              | 13.62            | 13.56         | 78.92                 | 926.22                 | 899.46                  | 26.76                     | 34.606            | 0                        |                          |   |                              |                              |  |
| 7,800.00                     | 7,277.00              | 7,646.40              | 7,094.00              | 13.90            | 13.83         | 78.92                 | 926.22                 | 898.90                  | 27.32                     | 33.902            | 0                        |                          |   |                              |                              |  |
| 7,900.00                     | 7,277.00              | 7,746.40              | 7,094.00              | 14.20            | 14.14         | 78.92                 | 926.22                 | 898.29                  | 27.93                     | 33.160            | 0                        |                          |   |                              |                              |  |
| 8,000.00                     | 7,277.00              | 7,846.40              | 7,094.00              | 14.54            | 14.48         | 78.92                 | 926.22                 | 897.63                  | 28.60                     | 32.388            | 0                        |                          |   |                              |                              |  |
| 8,100.00                     | 7,277.00              | 7,946.40              | 7,094.00              | 14.90            | 14.84         | 78.92                 | 926.22                 | 896.91                  | 29.31                     | 31.597            | 0                        |                          |   |                              |                              |  |
| 8,200.00                     | 7,277.00              | 8,046.40              | 7,094.00              | 15.28            | 15.22         | 78.92                 | 926.22                 | 896.15                  | 30.08                     | 30.795            | 0                        |                          |   |                              |                              |  |
| 8,300.00                     | 7,277.00              | 8,146.40              | 7,094.00              | 15.69            | 15.63         | 78.92                 | 926.22                 | 895.34                  | 30.88                     | 29.991            | 0                        |                          |   |                              |                              |  |
| 8,400.00                     | 7,277.00              | 8,246.40              | 7,094.00              | 16.11            | 16.05         | 78.92                 | 926.22                 | 894.50                  | 31.73                     | 29.191            | 0                        |                          |   |                              |                              |  |
| 8,500.00                     | 7,277.00              | 8,346.40              | 7,094.00              | 16.56            | 16.50         | 78.92                 | 926.22                 | 893.61                  | 32.61                     | 28.400            | 0                        |                          |   |                              |                              |  |
| 8,600.00                     | 7,277.00              | 8,446.40              | 7,094.00              | 17.02            | 16.96         | 78.92                 | 926.22                 | 892.69                  | 33.53                     | 27.623            | 0                        |                          |   |                              |                              |  |
| 8,700.00                     | 7,277.00              | 8,546.40              | 7,094.00              | 17.49            | 17.44         | 78.92                 | 926.22                 | 891.75                  | 34.48                     | 26.863            | 0                        |                          |   |                              |                              |  |
| 8,800.00                     | 7,277.00              | 8,646.40              | 7,094.00              | 17.99            | 17.93         | 78.92                 | 926.22                 | 890.77                  | 35.46                     | 26.122            | 0                        |                          |   |                              |                              |  |
| 8,900.00                     | 7,277.00              | 8,746.40              | 7,094.00              | 18.49            | 18.43         | 78.92                 | 926.22                 | 889.76                  | 36.46                     | 25.403            | 0                        |                          |   |                              |                              |  |
| 9,000.00                     | 7,277.00              | 8,846.40              | 7,094.00              | 19.01            | 18.95         | 78.92                 | 926.22                 | 888.73                  | 37.49                     | 24.706            | 0                        |                          |   |                              |                              |  |
| 9,100.00                     | 7,277.00              | 8,946.40              | 7,094.00              | 19.54            | 19.48         | 78.92                 | 926.22                 | 887.68                  | 38.54                     | 24.032            | 0                        |                          |   |                              |                              |  |
| 9,200.00                     | 7,277.00              | 9,046.40              | 7,094.00              | 20.08            | 20.02         | 78.92                 | 926.22                 | 886.61                  | 39.61                     | 23.382            | 0                        |                          |   |                              |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Offset Site Error: | 0.00 usft |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|--------------------|-----------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |                    |           |
| 9,300.00                     | 7,277.00              | 9,146.40              | 7,094.00              | 20.63            | 20.57         | 78.92                 | 926.22                 | 885.52                  | 40.70                     | 22.756            | 0                        |                          |                    |           |
| 9,400.00                     | 7,277.00              | 9,246.40              | 7,094.00              | 21.19            | 21.13         | 78.92                 | 926.22                 | 884.41                  | 41.81                     | 22.153            | 0                        |                          |                    |           |
| 9,500.00                     | 7,277.00              | 9,346.40              | 7,094.00              | 21.76            | 21.70         | 78.92                 | 926.22                 | 883.29                  | 42.94                     | 21.572            | 0                        |                          |                    |           |
| 9,600.00                     | 7,277.00              | 9,446.40              | 7,094.00              | 22.34            | 22.28         | 78.92                 | 926.22                 | 882.15                  | 44.07                     | 21.015            | 0                        |                          |                    |           |
| 9,700.00                     | 7,277.00              | 9,546.40              | 7,094.00              | 22.92            | 22.86         | 78.92                 | 926.22                 | 881.00                  | 45.23                     | 20.479            | 0                        |                          |                    |           |
| 9,800.00                     | 7,277.00              | 9,646.40              | 7,094.00              | 23.51            | 23.45         | 78.92                 | 926.22                 | 879.83                  | 46.39                     | 19.965            | 0                        |                          |                    |           |
| 9,900.00                     | 7,277.00              | 9,746.40              | 7,094.00              | 24.10            | 24.04         | 78.92                 | 926.22                 | 878.65                  | 47.57                     | 19.470            | 0                        |                          |                    |           |
| 10,000.00                    | 7,277.00              | 9,846.40              | 7,094.00              | 24.71            | 24.65         | 78.92                 | 926.22                 | 877.47                  | 48.76                     | 18.996            | 0                        |                          |                    |           |
| 10,100.00                    | 7,277.00              | 9,946.40              | 7,094.00              | 25.31            | 25.25         | 78.92                 | 926.22                 | 876.27                  | 49.96                     | 18.540            | 0                        |                          |                    |           |
| 10,200.00                    | 7,277.00              | 10,046.40             | 7,094.00              | 25.92            | 25.86         | 78.92                 | 926.22                 | 875.06                  | 51.17                     | 18.102            | 0                        |                          |                    |           |
| 10,300.00                    | 7,277.00              | 10,146.40             | 7,094.00              | 26.54            | 26.48         | 78.92                 | 926.22                 | 873.84                  | 52.38                     | 17.682            | 0                        |                          |                    |           |
| 10,400.00                    | 7,277.00              | 10,246.40             | 7,094.00              | 27.16            | 27.10         | 78.92                 | 926.22                 | 872.62                  | 53.61                     | 17.277            | 0                        |                          |                    |           |
| 10,500.00                    | 7,277.00              | 10,346.40             | 7,094.00              | 27.78            | 27.72         | 78.92                 | 926.22                 | 871.38                  | 54.84                     | 16.889            | 0                        |                          |                    |           |
| 10,600.00                    | 7,277.00              | 10,446.40             | 7,094.00              | 28.41            | 28.35         | 78.92                 | 926.22                 | 870.14                  | 56.08                     | 16.516            | 0                        |                          |                    |           |
| 10,700.00                    | 7,277.00              | 10,546.40             | 7,094.00              | 29.04            | 28.98         | 78.92                 | 926.22                 | 868.90                  | 57.33                     | 16.156            | 0                        |                          |                    |           |
| 10,800.00                    | 7,277.00              | 10,646.40             | 7,094.00              | 29.68            | 29.62         | 78.92                 | 926.22                 | 867.64                  | 58.58                     | 15.811            | 0                        |                          |                    |           |
| 10,900.00                    | 7,277.00              | 10,746.40             | 7,094.00              | 30.32            | 30.25         | 78.92                 | 926.22                 | 866.38                  | 59.84                     | 15.478            | 0                        |                          |                    |           |
| 11,000.00                    | 7,277.00              | 10,846.40             | 7,094.00              | 30.96            | 30.89         | 78.92                 | 926.22                 | 865.12                  | 61.11                     | 15.158            | 0                        |                          |                    |           |
| 11,100.00                    | 7,277.00              | 10,946.40             | 7,094.00              | 31.60            | 31.54         | 78.92                 | 926.22                 | 863.85                  | 62.37                     | 14.849            | 0                        |                          |                    |           |
| 11,200.00                    | 7,277.00              | 11,046.40             | 7,094.00              | 32.25            | 32.18         | 78.92                 | 926.22                 | 862.58                  | 63.65                     | 14.552            | 0                        |                          |                    |           |
| 11,300.00                    | 7,277.00              | 11,146.40             | 7,094.00              | 32.89            | 32.83         | 78.92                 | 926.22                 | 861.30                  | 64.93                     | 14.265            | 0                        |                          |                    |           |
| 11,400.00                    | 7,277.00              | 11,246.40             | 7,094.00              | 33.54            | 33.48         | 78.92                 | 926.22                 | 860.01                  | 66.21                     | 13.989            | 0                        |                          |                    |           |
| 11,500.00                    | 7,277.00              | 11,346.40             | 7,094.00              | 34.20            | 34.13         | 78.92                 | 926.22                 | 858.73                  | 67.50                     | 13.722            | 0                        |                          |                    |           |
| 11,600.00                    | 7,277.00              | 11,446.40             | 7,094.00              | 34.85            | 34.79         | 78.92                 | 926.22                 | 857.43                  | 68.79                     | 13.464            | 0                        |                          |                    |           |
| 11,700.00                    | 7,277.00              | 11,546.40             | 7,094.00              | 35.51            | 35.44         | 78.92                 | 926.22                 | 856.14                  | 70.09                     | 13.216            | 0                        |                          |                    |           |
| 11,800.00                    | 7,277.00              | 11,646.40             | 7,094.00              | 36.16            | 36.10         | 78.92                 | 926.22                 | 854.84                  | 71.38                     | 12.975            | 0                        |                          |                    |           |
| 11,900.00                    | 7,277.00              | 11,746.40             | 7,094.00              | 36.82            | 36.76         | 78.92                 | 926.22                 | 853.54                  | 72.69                     | 12.743            | 0                        |                          |                    |           |
| 12,000.00                    | 7,277.00              | 11,846.40             | 7,094.00              | 37.49            | 37.42         | 78.92                 | 926.22                 | 852.23                  | 73.99                     | 12.518            | 0                        |                          |                    |           |
| 12,100.00                    | 7,277.00              | 11,946.40             | 7,094.00              | 38.15            | 38.09         | 78.92                 | 926.22                 | 850.93                  | 75.30                     | 12.301            | 0                        |                          |                    |           |
| 12,200.00                    | 7,277.00              | 12,046.40             | 7,094.00              | 38.81            | 38.75         | 78.92                 | 926.22                 | 849.62                  | 76.61                     | 12.090            | 0                        |                          |                    |           |
| 12,300.00                    | 7,277.00              | 12,146.40             | 7,094.00              | 39.48            | 39.42         | 78.92                 | 926.22                 | 848.30                  | 77.92                     | 11.887            | 0                        |                          |                    |           |
| 12,400.00                    | 7,277.00              | 12,246.40             | 7,094.00              | 40.15            | 40.08         | 78.92                 | 926.22                 | 846.99                  | 79.24                     | 11.689            | 0                        |                          |                    |           |
| 12,500.00                    | 7,277.00              | 12,346.40             | 7,094.00              | 40.81            | 40.75         | 78.92                 | 926.22                 | 845.67                  | 80.55                     | 11.498            | 0                        |                          |                    |           |
| 12,600.00                    | 7,277.00              | 12,446.40             | 7,094.00              | 41.48            | 41.42         | 78.92                 | 926.22                 | 844.35                  | 81.87                     | 11.313            | 0                        |                          |                    |           |
| 12,700.00                    | 7,277.00              | 12,546.40             | 7,094.00              | 42.15            | 42.09         | 78.92                 | 926.22                 | 843.03                  | 83.20                     | 11.133            | 0                        |                          |                    |           |
| 12,800.00                    | 7,277.00              | 12,646.40             | 7,094.00              | 42.82            | 42.76         | 78.92                 | 926.22                 | 841.70                  | 84.52                     | 10.959            | 0                        |                          |                    |           |
| 12,900.00                    | 7,277.00              | 12,746.40             | 7,094.00              | 43.50            | 43.43         | 78.92                 | 926.22                 | 840.38                  | 85.85                     | 10.789            | 0                        |                          |                    |           |
| 13,000.00                    | 7,277.00              | 12,846.40             | 7,094.00              | 44.17            | 44.11         | 78.92                 | 926.22                 | 839.05                  | 87.17                     | 10.625            | 0                        |                          |                    |           |
| 13,100.00                    | 7,277.00              | 12,946.40             | 7,094.00              | 44.85            | 44.78         | 78.92                 | 926.22                 | 837.72                  | 88.50                     | 10.465            | 0                        |                          |                    |           |
| 13,200.00                    | 7,277.00              | 13,046.40             | 7,094.00              | 45.52            | 45.46         | 78.92                 | 926.22                 | 836.39                  | 89.84                     | 10.310            | 0                        |                          |                    |           |
| 13,300.00                    | 7,277.00              | 13,146.40             | 7,094.00              | 46.20            | 46.13         | 78.92                 | 926.22                 | 835.06                  | 91.17                     | 10.159            | 0                        |                          |                    |           |
| 13,400.00                    | 7,277.00              | 13,246.40             | 7,094.00              | 46.87            | 46.81         | 78.92                 | 926.22                 | 833.72                  | 92.50                     | 10.013            | 0                        |                          |                    |           |
| 13,500.00                    | 7,277.00              | 13,346.40             | 7,094.00              | 47.55            | 47.49         | 78.92                 | 926.22                 | 832.38                  | 93.84                     | 9.870             | 0                        |                          |                    |           |
| 13,600.00                    | 7,277.00              | 13,446.40             | 7,094.00              | 48.23            | 48.17         | 78.92                 | 926.22                 | 831.05                  | 95.18                     | 9.731             | 0                        |                          |                    |           |
| 13,700.00                    | 7,277.00              | 13,546.40             | 7,094.00              | 48.91            | 48.85         | 78.92                 | 926.22                 | 829.71                  | 96.52                     | 9.596             | 0                        |                          |                    |           |
| 13,800.00                    | 7,277.00              | 13,646.40             | 7,094.00              | 49.59            | 49.52         | 78.92                 | 926.22                 | 828.37                  | 97.86                     | 9.465             | 0                        |                          |                    |           |
| 13,900.00                    | 7,277.00              | 13,746.40             | 7,094.00              | 50.27            | 50.21         | 78.92                 | 926.22                 | 827.03                  | 99.20                     | 9.337             | 0                        |                          |                    |           |
| 14,000.00                    | 7,277.00              | 13,846.40             | 7,094.00              | 50.95            | 50.89         | 78.92                 | 926.22                 | 825.68                  | 100.54                    | 9.212             | 0                        |                          |                    |           |
| 14,100.00                    | 7,277.00              | 13,946.40             | 7,094.00              | 51.63            | 51.57         | 78.92                 | 926.22                 | 824.34                  | 101.89                    | 9.091             | 0                        |                          |                    |           |
| 14,200.00                    | 7,277.00              | 14,046.40             | 7,094.00              | 52.31            | 52.25         | 78.92                 | 926.22                 | 822.99                  | 103.23                    | 8.972             | 0                        |                          |                    |           |
| 14,300.00                    | 7,277.00              | 14,146.40             | 7,094.00              | 53.00            | 52.93         | 78.92                 | 926.22                 | 821.65                  | 104.58                    | 8.857             | 0                        |                          |                    |           |
| 14,400.00                    | 7,277.00              | 14,246.40             | 7,094.00              | 53.68            | 53.62         | 78.92                 | 926.22                 | 820.30                  | 105.92                    | 8.744             | 0                        |                          |                    |           |
| 14,500.00                    | 7,277.00              | 14,346.40             | 7,094.00              | 54.36            | 54.30         | 78.92                 | 926.22                 | 818.95                  | 107.27                    | 8.634             | 0                        |                          |                    |           |
| 14,600.00                    | 7,277.00              | 14,446.40             | 7,094.00              | 55.05            | 54.98         | 78.92                 | 926.22                 | 817.60                  | 108.62                    | 8.527             | 0                        |                          |                    |           |

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



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #8 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |                           |           |
| 14,700.00  | 7,277.00              | 14,546.40             | 7,094.00              | 55.73            | 55.67         | 78.92                 | 926.22                 | 816.25                  | 109.97                    | 8.422             | 0                       |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,646.40             | 7,094.00              | 56.42            | 56.36         | 78.92                 | 926.22                 | 814.90                  | 111.32                    | 8.320             | 0                       |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,746.40             | 7,094.00              | 57.11            | 57.04         | 78.92                 | 926.22                 | 813.55                  | 112.67                    | 8.220             | 0                       |                          |                           |           |
| 15,000.00  | 7,277.00              | 14,846.43             | 7,094.00              | 57.79            | 57.73         | 78.92                 | 926.22                 | 812.20                  | 114.03                    | 8.123             | 0                       |                          |                           |           |
| 15,048.84  | 7,277.00              | 14,895.27             | 7,094.00              | 58.13            | 58.06         | 78.92                 | 926.22                 | 811.53                  | 114.69                    | 8.076             | 0                       |                          | SF                        |           |



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          | Sec.28-T07N-R67W - Nelson Farm #9 - Original Hole - Rev 0 |  | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|--------------------------|---|--|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          |                          |   |  | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision |   |  |                              |  |
| 0.00                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | -179.70               | 140.03                 |                         |                           |                   |                          |                          |   |  |                              |  |
| 100.00                       | 100.00                | 94.00                 | 94.00                 | 0.15             | 0.14          | -179.70               | 139.91                 | 139.62                  | 0.28                      | 491.897           | 0                        |                          |   |  |                              |  |
| 200.00                       | 200.00                | 194.00                | 194.00                | 0.32             | 0.31          | -179.70               | 139.91                 | 139.27                  | 0.63                      | 221.435           | 0                        |                          |   |  |                              |  |
| 300.00                       | 300.00                | 294.00                | 294.00                | 0.50             | 0.49          | -179.70               | 139.91                 | 138.92                  | 0.98                      | 142.633           | 0                        |                          |   |  |                              |  |
| 400.00                       | 400.00                | 394.00                | 394.00                | 0.67             | 0.66          | -179.70               | 139.91                 | 138.58                  | 1.33                      | 105.196           | 0                        |                          |   |  |                              |  |
| 500.00                       | 500.00                | 494.00                | 494.00                | 0.84             | 0.83          | -179.70               | 139.91                 | 138.23                  | 1.68                      | 83.326            | 0                        |                          |   |  |                              |  |
| 600.00                       | 600.00                | 594.00                | 594.00                | 1.02             | 1.01          | -179.70               | 139.91                 | 137.88                  | 2.03                      | 68.984            | 0                        |                          |   |  |                              |  |
| 700.00                       | 700.00                | 694.00                | 694.00                | 1.19             | 1.18          | -179.70               | 139.91                 | 137.53                  | 2.38                      | 58.854            | 0                        |                          |   |  |                              |  |
| 800.00                       | 800.00                | 794.00                | 794.00                | 1.37             | 1.36          | -179.70               | 139.91                 | 137.18                  | 2.73                      | 51.319            | 0                        |                          | CC, ES  |  |                              |  |
| 900.00                       | 900.00                | 890.31                | 890.30                | 1.54             | 1.53          | -179.38               | 141.14                 | 138.07                  | 3.07                      | 45.987            | 0                        |                          |   |  |                              |  |
| 1,000.00                     | 999.98                | 986.19                | 986.06                | 1.72             | 1.69          | -110.98               | 145.79                 | 142.38                  | 3.41                      | 42.743            | 0                        |                          |   |  |                              |  |
| 1,100.00                     | 1,099.84              | 1,081.63              | 1,081.18              | 1.89             | 1.86          | -110.96               | 154.49                 | 150.73                  | 3.75                      | 41.163            | 0                        |                          |   |  |                              |  |
| 1,200.00                     | 1,199.45              | 1,176.38              | 1,175.30              | 2.07             | 2.03          | -111.33               | 167.19                 | 163.09                  | 4.10                      | 40.808            | 0                        |                          |   |  |                              |  |
| 1,239.63                     | 1,238.83              | 1,213.69              | 1,212.25              | 2.14             | 2.10          | -111.55               | 173.33                 | 169.09                  | 4.23                      | 40.942            | 0                        |                          |   |  |                              |  |
| 1,300.00                     | 1,298.78              | 1,270.25              | 1,268.14              | 2.25             | 2.20          | -111.97               | 183.64                 | 179.20                  | 4.44                      | 41.341            | 0                        |                          |   |  |                              |  |
| 1,400.00                     | 1,398.08              | 1,363.25              | 1,359.63              | 2.43             | 2.38          | -112.17               | 202.85                 | 198.06                  | 4.79                      | 42.370            | 0                        |                          |   |  |                              |  |
| 1,500.00                     | 1,497.38              | 1,459.18              | 1,453.54              | 2.61             | 2.56          | -111.98               | 224.07                 | 218.93                  | 5.14                      | 43.596            | 0                        |                          |   |  |                              |  |
| 1,600.00                     | 1,596.68              | 1,556.87              | 1,549.13              | 2.79             | 2.75          | -111.79               | 245.44                 | 239.94                  | 5.50                      | 44.654            | 0                        |                          |   |  |                              |  |
| 1,700.00                     | 1,695.97              | 1,654.55              | 1,644.73              | 2.97             | 2.93          | -111.63               | 266.80                 | 260.95                  | 5.85                      | 45.573            | 0                        |                          |   |  |                              |  |
| 1,800.00                     | 1,795.27              | 1,752.24              | 1,740.33              | 3.15             | 3.13          | -111.50               | 288.17                 | 281.95                  | 6.21                      | 46.379            | 0                        |                          |   |  |                              |  |
| 1,900.00                     | 1,894.57              | 1,849.93              | 1,835.93              | 3.33             | 3.32          | -111.38               | 309.54                 | 302.96                  | 6.57                      | 47.092            | 0                        |                          |   |  |                              |  |
| 2,000.00                     | 1,993.87              | 1,947.62              | 1,931.53              | 3.52             | 3.51          | -111.28               | 330.91                 | 323.97                  | 6.93                      | 47.725            | 0                        |                          |   |  |                              |  |
| 2,100.00                     | 2,093.17              | 2,045.31              | 2,027.13              | 3.70             | 3.70          | -111.20               | 352.28                 | 344.98                  | 7.29                      | 48.292            | 0                        |                          |   |  |                              |  |
| 2,200.00                     | 2,192.46              | 2,143.00              | 2,122.72              | 3.88             | 3.90          | -111.12               | 373.65                 | 365.99                  | 7.66                      | 48.803            | 0                        |                          |   |  |                              |  |
| 2,300.00                     | 2,291.76              | 2,240.68              | 2,218.32              | 4.06             | 4.09          | -111.05               | 395.02                 | 387.00                  | 8.02                      | 49.264            | 0                        |                          |   |  |                              |  |
| 2,400.00                     | 2,391.06              | 2,338.37              | 2,313.92              | 4.25             | 4.29          | -110.99               | 416.39                 | 408.01                  | 8.38                      | 49.684            | 0                        |                          |   |  |                              |  |
| 2,500.00                     | 2,490.36              | 2,436.06              | 2,409.52              | 4.43             | 4.48          | -110.93               | 437.76                 | 429.02                  | 8.74                      | 50.067            | 0                        |                          |   |  |                              |  |
| 2,600.00                     | 2,589.66              | 2,533.75              | 2,505.12              | 4.62             | 4.68          | -110.88               | 459.14                 | 450.03                  | 9.11                      | 50.417            | 0                        |                          |   |  |                              |  |
| 2,700.00                     | 2,688.95              | 2,631.44              | 2,600.72              | 4.80             | 4.88          | -110.83               | 480.51                 | 471.04                  | 9.47                      | 50.740            | 0                        |                          |   |  |                              |  |
| 2,800.00                     | 2,788.25              | 2,729.13              | 2,696.32              | 4.98             | 5.07          | -110.79               | 501.89                 | 492.05                  | 9.83                      | 51.037            | 0                        |                          |   |  |                              |  |
| 2,900.00                     | 2,887.55              | 2,826.82              | 2,791.91              | 5.17             | 5.27          | -110.75               | 523.26                 | 513.06                  | 10.20                     | 51.313            | 0                        |                          |   |  |                              |  |
| 3,000.00                     | 2,986.85              | 2,924.50              | 2,887.51              | 5.35             | 5.47          | -110.71               | 544.63                 | 534.07                  | 10.56                     | 51.568            | 0                        |                          |   |  |                              |  |
| 3,100.00                     | 3,086.15              | 3,022.19              | 2,983.11              | 5.54             | 5.67          | -110.68               | 566.01                 | 555.08                  | 10.93                     | 51.806            | 0                        |                          |   |  |                              |  |
| 3,200.00                     | 3,185.44              | 3,119.88              | 3,078.71              | 5.72             | 5.86          | -110.65               | 587.38                 | 576.09                  | 11.29                     | 52.027            | 0                        |                          |   |  |                              |  |
| 3,300.00                     | 3,284.74              | 3,217.57              | 3,174.31              | 5.90             | 6.06          | -110.62               | 608.76                 | 597.10                  | 11.65                     | 52.235            | 0                        |                          |   |  |                              |  |
| 3,400.00                     | 3,384.04              | 3,315.26              | 3,269.91              | 6.09             | 6.26          | -110.59               | 630.13                 | 618.11                  | 12.02                     | 52.429            | 0                        |                          |   |  |                              |  |
| 3,500.00                     | 3,483.34              | 3,412.95              | 3,365.50              | 6.27             | 6.46          | -110.57               | 651.51                 | 639.12                  | 12.38                     | 52.611            | 0                        |                          |   |  |                              |  |
| 3,600.00                     | 3,582.64              | 3,510.63              | 3,461.10              | 6.46             | 6.66          | -110.55               | 672.88                 | 660.13                  | 12.75                     | 52.782            | 0                        |                          |   |  |                              |  |
| 3,700.00                     | 3,681.94              | 3,608.32              | 3,556.70              | 6.64             | 6.86          | -110.52               | 694.26                 | 681.14                  | 13.11                     | 52.944            | 0                        |                          |   |  |                              |  |
| 3,800.00                     | 3,781.23              | 3,706.01              | 3,652.30              | 6.83             | 7.05          | -110.50               | 715.63                 | 702.15                  | 13.48                     | 53.096            | 0                        |                          |   |  |                              |  |
| 3,900.00                     | 3,880.53              | 3,803.70              | 3,747.90              | 7.01             | 7.25          | -110.48               | 737.01                 | 723.16                  | 13.84                     | 53.240            | 0                        |                          |   |  |                              |  |
| 4,000.00                     | 3,979.83              | 3,901.39              | 3,843.50              | 7.20             | 7.45          | -110.47               | 758.38                 | 744.17                  | 14.21                     | 53.376            | 0                        |                          |   |  |                              |  |
| 4,100.00                     | 4,079.13              | 3,999.08              | 3,939.10              | 7.38             | 7.65          | -110.45               | 779.76                 | 765.18                  | 14.57                     | 53.506            | 0                        |                          |   |  |                              |  |
| 4,200.00                     | 4,178.43              | 4,096.77              | 4,034.69              | 7.56             | 7.85          | -110.43               | 801.13                 | 786.19                  | 14.94                     | 53.628            | 0                        |                          |   |  |                              |  |
| 4,300.00                     | 4,277.72              | 4,194.45              | 4,130.29              | 7.75             | 8.05          | -110.42               | 822.51                 | 807.21                  | 15.30                     | 53.745            | 0                        |                          |   |  |                              |  |
| 4,400.00                     | 4,377.02              | 4,292.14              | 4,225.89              | 7.93             | 8.25          | -110.40               | 843.88                 | 828.22                  | 15.67                     | 53.856            | 0                        |                          |   |  |                              |  |
| 4,500.00                     | 4,476.32              | 4,389.83              | 4,321.49              | 8.12             | 8.45          | -110.39               | 865.26                 | 849.23                  | 16.03                     | 53.962            | 0                        |                          |   |  |                              |  |
| 4,600.00                     | 4,575.62              | 4,487.52              | 4,417.09              | 8.30             | 8.65          | -110.37               | 886.64                 | 870.24                  | 16.40                     | 54.063            | 0                        |                          |   |  |                              |  |
| 4,700.00                     | 4,674.92              | 4,585.21              | 4,512.69              | 8.49             | 8.85          | -110.36               | 908.01                 | 891.25                  | 16.77                     | 54.159            | 0                        |                          |   |  |                              |  |
| 4,800.00                     | 4,774.21              | 4,682.90              | 4,608.28              | 8.67             | 9.05          | -110.35               | 929.39                 | 912.26                  | 17.13                     | 54.251            | 0                        |                          |   |  |                              |  |
| 4,900.00                     | 4,873.51              | 4,780.58              | 4,703.88              | 8.86             | 9.25          | -110.34               | 950.76                 | 933.27                  | 17.50                     | 54.339            | 0                        |                          |   |  |                              |  |
| 5,000.00                     | 4,972.81              | 4,878.27              | 4,799.48              | 9.04             | 9.45          | -110.33               | 972.14                 | 954.28                  | 17.86                     | 54.424            | 0                        |                          |   |  |                              |  |
| 5,100.00                     | 5,072.11              | 4,975.96              | 4,895.08              | 9.23             | 9.64          | -110.32               | 993.52                 | 975.29                  | 18.23                     | 54.504            | 0                        |                          |   |  |                              |  |
| 5,200.00                     | 5,171.41              | 5,073.65              | 4,990.68              | 9.41             | 9.84          | -110.31               | 1,014.89               | 996.30                  | 18.59                     | 54.582            | 0                        |                          |   |  |                              |  |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |         |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|---------|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor | Probability of Collision     | Warning |
| 5,300.00                     | 5,270.70              | 5,171.34              | 5,086.28              | 9.60             | 10.04         | -110.30               | 1,036.27               | 1,017.31                | 18.96                     | 54.656            | 0                        |                              |         |
| 5,400.00                     | 5,370.00              | 5,269.03              | 5,181.88              | 9.78             | 10.24         | -110.29               | 1,057.64               | 1,038.32                | 19.33                     | 54.728            | 0                        |                              |         |
| 5,500.00                     | 5,469.30              | 5,366.72              | 5,277.47              | 9.97             | 10.44         | -110.28               | 1,079.02               | 1,059.33                | 19.69                     | 54.797            | 0                        |                              |         |
| 5,600.00                     | 5,568.60              | 5,464.40              | 5,373.07              | 10.15            | 10.64         | -110.27               | 1,100.40               | 1,080.34                | 20.06                     | 54.863            | 0                        |                              |         |
| 5,700.00                     | 5,667.90              | 5,562.09              | 5,468.67              | 10.34            | 10.84         | -110.26               | 1,121.77               | 1,101.35                | 20.42                     | 54.927            | 0                        |                              |         |
| 5,800.00                     | 5,767.20              | 5,659.78              | 5,564.27              | 10.52            | 11.04         | -110.25               | 1,143.15               | 1,122.36                | 20.79                     | 54.989            | 0                        |                              |         |
| 5,900.00                     | 5,866.49              | 5,757.47              | 5,659.87              | 10.71            | 11.24         | -110.24               | 1,164.52               | 1,143.37                | 21.15                     | 55.048            | 0                        |                              |         |
| 6,000.00                     | 5,965.79              | 5,855.16              | 5,755.47              | 10.89            | 11.44         | -110.24               | 1,185.90               | 1,164.38                | 21.52                     | 55.105            | 0                        |                              |         |
| 6,100.00                     | 6,065.09              | 5,999.07              | 5,896.88              | 11.08            | 11.73         | -110.31               | 1,205.65               | 1,183.68                | 21.97                     | 54.881            | 0                        |                              |         |
| 6,200.00                     | 6,164.39              | 6,151.97              | 6,048.36              | 11.26            | 12.01         | -110.58               | 1,221.07               | 1,198.65                | 22.43                     | 54.449            | 0                        |                              |         |
| 6,237.42                     | 6,201.55              | 6,209.58              | 6,105.70              | 11.33            | 12.11         | -110.74               | 1,225.71               | 1,203.12                | 22.60                     | 54.243            | 0                        |                              |         |
| 6,300.00                     | 6,263.76              | 6,306.33              | 6,202.20              | 11.45            | 12.27         | -111.13               | 1,231.84               | 1,208.95                | 22.89                     | 53.812            | 0                        |                              |         |
| 6,400.00                     | 6,363.44              | 6,461.65              | 6,357.44              | 11.62            | 12.52         | -111.65               | 1,237.00               | 1,213.65                | 23.35                     | 52.976            | 0                        |                              |         |
| 6,500.00                     | 6,463.34              | 6,561.54              | 6,457.34              | 11.79            | 12.67         | -111.87               | 1,238.64               | 1,214.94                | 23.70                     | 52.253            | 0                        |                              |         |
| 6,577.05                     | 6,540.38              | 6,638.63              | 6,534.24              | 11.92            | 12.79         | 179.95                | 1,239.02               | 1,214.96                | 24.07                     | 51.485            | 0                        |                              |         |
| 6,600.00                     | 6,563.33              | 6,661.26              | 6,556.65              | 11.96            | 12.82         | 179.80                | 1,239.03               | 1,214.89                | 24.14                     | 51.328            | 0                        |                              |         |
| 6,677.05                     | 6,640.38              | 6,735.13              | 6,628.78              | 12.09            | 12.91         | 179.07                | 1,239.20               | 1,214.82                | 24.38                     | 50.828            | 0                        |                              |         |
| 6,700.00                     | 6,663.33              | 6,756.44              | 6,649.21              | 12.13            | 12.94         | 88.80                 | 1,239.32               | 1,214.97                | 24.34                     | 50.911            | 0                        |                              |         |
| 6,750.00                     | 6,713.17              | 6,802.26              | 6,692.36              | 12.20            | 12.99         | 88.21                 | 1,239.67               | 1,215.19                | 24.48                     | 50.634            | 0                        |                              |         |
| 6,800.00                     | 6,762.57              | 6,847.29              | 6,733.59              | 12.28            | 13.04         | 87.63                 | 1,240.15               | 1,215.54                | 24.61                     | 50.384            | 0                        |                              |         |
| 6,850.00                     | 6,811.21              | 6,891.60              | 6,772.81              | 12.34            | 13.09         | 87.07                 | 1,240.75               | 1,216.01                | 24.74                     | 50.156            | 0                        |                              |         |
| 6,900.00                     | 6,858.80              | 6,935.25              | 6,809.95              | 12.41            | 13.13         | 86.53                 | 1,241.44               | 1,216.58                | 24.85                     | 49.949            | 0                        |                              |         |
| 6,950.00                     | 6,905.04              | 6,978.29              | 6,844.96              | 12.47            | 13.17         | 86.00                 | 1,242.20               | 1,217.24                | 24.96                     | 49.760            | 0                        |                              |         |
| 7,000.00                     | 6,949.66              | 7,020.79              | 6,877.79              | 12.52            | 13.22         | 85.50                 | 1,243.03               | 1,217.96                | 25.07                     | 49.584            | 0                        |                              |         |
| 7,050.00                     | 6,992.36              | 7,062.79              | 6,908.39              | 12.58            | 13.26         | 85.03                 | 1,243.90               | 1,218.73                | 25.17                     | 49.418            | 0                        |                              |         |
| 7,100.00                     | 7,032.90              | 7,104.34              | 6,936.74              | 12.63            | 13.30         | 84.58                 | 1,244.80               | 1,219.52                | 25.27                     | 49.259            | 0                        |                              |         |
| 7,150.00                     | 7,071.01              | 7,145.49              | 6,962.79              | 12.69            | 13.35         | 84.16                 | 1,245.69               | 1,220.32                | 25.37                     | 49.100            | 0                        |                              |         |
| 7,200.00                     | 7,106.47              | 7,186.28              | 6,986.54              | 12.74            | 13.39         | 83.77                 | 1,246.58               | 1,221.11                | 25.47                     | 48.938            | 0                        |                              |         |
| 7,250.00                     | 7,139.06              | 7,226.74              | 7,007.95              | 12.80            | 13.44         | 83.41                 | 1,247.44               | 1,221.86                | 25.58                     | 48.768            | 0                        |                              |         |
| 7,300.00                     | 7,168.57              | 7,266.92              | 7,027.01              | 12.86            | 13.49         | 83.09                 | 1,248.25               | 1,222.56                | 25.69                     | 48.584            | 0                        |                              |         |
| 7,350.00                     | 7,194.82              | 7,306.85              | 7,043.71              | 12.93            | 13.54         | 82.80                 | 1,249.00               | 1,223.19                | 25.81                     | 48.383            | 0                        |                              |         |
| 7,400.00                     | 7,217.66              | 7,350.00              | 7,059.16              | 13.00            | 13.60         | 82.53                 | 1,249.68               | 1,223.73                | 25.95                     | 48.150            | 0                        |                              |         |
| 7,450.00                     | 7,236.94              | 7,386.12              | 7,069.97              | 13.07            | 13.66         | 82.34                 | 1,250.26               | 1,224.17                | 26.10                     | 47.910            | 0                        |                              |         |
| 7,500.00                     | 7,252.54              | 7,425.52              | 7,079.51              | 13.15            | 13.72         | 82.16                 | 1,250.76               | 1,224.50                | 26.26                     | 47.630            | 0                        |                              |         |
| 7,550.00                     | 7,264.36              | 7,464.80              | 7,086.66              | 13.25            | 13.79         | 82.03                 | 1,251.14               | 1,224.70                | 26.44                     | 47.326            | 0                        |                              |         |
| 7,600.00                     | 7,272.34              | 7,500.00              | 7,091.02              | 13.36            | 13.86         | 81.94                 | 1,251.42               | 1,224.80                | 26.62                     | 47.008            | 0                        |                              |         |
| 7,650.00                     | 7,276.43              | 7,543.15              | 7,093.73              | 13.49            | 13.95         | 81.88                 | 1,251.57               | 1,224.73                | 26.84                     | 46.626            | 0                        |                              |         |
| 7,677.05                     | 7,277.00              | 7,565.08              | 7,094.00              | 13.55            | 13.99         | 81.87                 | 1,251.60               | 1,224.64                | 26.97                     | 46.415            | 0                        |                              |         |
| 7,700.00                     | 7,277.00              | 7,588.03              | 7,094.00              | 13.62            | 14.05         | 81.87                 | 1,251.60               | 1,224.52                | 27.08                     | 46.212            | 0                        |                              |         |
| 7,800.00                     | 7,277.00              | 7,688.03              | 7,094.00              | 13.90            | 14.29         | 81.87                 | 1,251.60               | 1,223.96                | 27.64                     | 45.287            | 0                        |                              |         |
| 7,900.00                     | 7,277.00              | 7,788.03              | 7,094.00              | 14.20            | 14.58         | 81.87                 | 1,251.60               | 1,223.35                | 28.25                     | 44.308            | 0                        |                              |         |
| 8,000.00                     | 7,277.00              | 7,888.03              | 7,094.00              | 14.54            | 14.90         | 81.87                 | 1,251.60               | 1,222.69                | 28.91                     | 43.289            | 0                        |                              |         |
| 8,100.00                     | 7,277.00              | 7,988.03              | 7,094.00              | 14.90            | 15.24         | 81.87                 | 1,251.60               | 1,221.97                | 29.63                     | 42.244            | 0                        |                              |         |
| 8,200.00                     | 7,277.00              | 8,088.03              | 7,094.00              | 15.28            | 15.62         | 81.87                 | 1,251.60               | 1,221.21                | 30.39                     | 41.183            | 0                        |                              |         |
| 8,300.00                     | 7,277.00              | 8,188.03              | 7,094.00              | 15.69            | 16.01         | 81.87                 | 1,251.60               | 1,220.40                | 31.20                     | 40.118            | 0                        |                              |         |
| 8,400.00                     | 7,277.00              | 8,288.03              | 7,094.00              | 16.11            | 16.43         | 81.87                 | 1,251.60               | 1,219.56                | 32.05                     | 39.057            | 0                        |                              |         |
| 8,500.00                     | 7,277.00              | 8,388.03              | 7,094.00              | 16.56            | 16.86         | 81.87                 | 1,251.60               | 1,218.67                | 32.93                     | 38.007            | 0                        |                              |         |
| 8,600.00                     | 7,277.00              | 8,488.03              | 7,094.00              | 17.02            | 17.32         | 81.87                 | 1,251.60               | 1,217.75                | 33.85                     | 36.975            | 0                        |                              |         |
| 8,700.00                     | 7,277.00              | 8,588.03              | 7,094.00              | 17.49            | 17.79         | 81.87                 | 1,251.60               | 1,216.80                | 34.80                     | 35.965            | 0                        |                              |         |
| 8,800.00                     | 7,277.00              | 8,688.03              | 7,094.00              | 17.99            | 18.27         | 81.87                 | 1,251.60               | 1,215.82                | 35.78                     | 34.980            | 0                        |                              |         |
| 8,900.00                     | 7,277.00              | 8,788.03              | 7,094.00              | 18.49            | 18.77         | 81.87                 | 1,251.60               | 1,214.81                | 36.79                     | 34.022            | 0                        |                              |         |
| 9,000.00                     | 7,277.00              | 8,888.03              | 7,094.00              | 19.01            | 19.28         | 81.87                 | 1,251.60               | 1,213.78                | 37.82                     | 33.094            | 0                        |                              |         |
| 9,100.00                     | 7,277.00              | 8,988.03              | 7,094.00              | 19.54            | 19.80         | 81.87                 | 1,251.60               | 1,212.73                | 38.87                     | 32.196            | 0                        |                              |         |
| 9,200.00                     | 7,277.00              | 9,088.03              | 7,094.00              | 20.08            | 20.34         | 81.87                 | 1,251.60               | 1,211.65                | 39.95                     | 31.330            | 0                        |                              |         |

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



# Schlumberger

## Anticollision Risk Report



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| Offset Design                |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | Offset Site Error: 0.00 usft |  |
|------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------------|------------------------------|--|
| Survey Program: 0-Pathfinder |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                          | 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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Risked Separation Factor |                              |  |
| 9,300.00                     | 7,277.00              | 9,188.03              | 7,094.00              | 20.63            | 20.88         | 81.87                 | 1,251.60               | 1,210.56                | 41.04                     | 30.494            | 0                        |                              |  |
| 9,400.00                     | 7,277.00              | 9,288.03              | 7,094.00              | 21.19            | 21.43         | 81.87                 | 1,251.60               | 1,209.45                | 42.16                     | 29.689            | 0                        |                              |  |
| 9,500.00                     | 7,277.00              | 9,388.03              | 7,094.00              | 21.76            | 21.99         | 81.87                 | 1,251.60               | 1,208.32                | 43.29                     | 28.915            | 0                        |                              |  |
| 9,600.00                     | 7,277.00              | 9,488.03              | 7,094.00              | 22.34            | 22.56         | 81.87                 | 1,251.60               | 1,207.17                | 44.43                     | 28.170            | 0                        |                              |  |
| 9,700.00                     | 7,277.00              | 9,588.03              | 7,094.00              | 22.92            | 23.14         | 81.87                 | 1,251.60               | 1,206.01                | 45.59                     | 27.455            | 0                        |                              |  |
| 9,800.00                     | 7,277.00              | 9,688.03              | 7,094.00              | 23.51            | 23.72         | 81.87                 | 1,251.60               | 1,204.84                | 46.76                     | 26.767            | 0                        |                              |  |
| 9,900.00                     | 7,277.00              | 9,788.03              | 7,094.00              | 24.10            | 24.31         | 81.87                 | 1,251.60               | 1,203.66                | 47.94                     | 26.107            | 0                        |                              |  |
| 10,000.00                    | 7,277.00              | 9,888.03              | 7,094.00              | 24.71            | 24.91         | 81.87                 | 1,251.60               | 1,202.47                | 49.14                     | 25.472            | 0                        |                              |  |
| 10,100.00                    | 7,277.00              | 9,988.03              | 7,094.00              | 25.31            | 25.51         | 81.87                 | 1,251.60               | 1,201.26                | 50.34                     | 24.862            | 0                        |                              |  |
| 10,200.00                    | 7,277.00              | 10,088.03             | 7,094.00              | 25.92            | 26.11         | 81.87                 | 1,251.60               | 1,200.05                | 51.56                     | 24.277            | 0                        |                              |  |
| 10,300.00                    | 7,277.00              | 10,188.03             | 7,094.00              | 26.54            | 26.72         | 81.87                 | 1,251.60               | 1,198.82                | 52.78                     | 23.714            | 0                        |                              |  |
| 10,400.00                    | 7,277.00              | 10,288.03             | 7,094.00              | 27.16            | 27.34         | 81.87                 | 1,251.60               | 1,197.59                | 54.01                     | 23.173            | 0                        |                              |  |
| 10,500.00                    | 7,277.00              | 10,388.03             | 7,094.00              | 27.78            | 27.96         | 81.87                 | 1,251.60               | 1,196.35                | 55.25                     | 22.653            | 0                        |                              |  |
| 10,600.00                    | 7,277.00              | 10,488.03             | 7,094.00              | 28.41            | 28.58         | 81.87                 | 1,251.60               | 1,195.11                | 56.50                     | 22.154            | 0                        |                              |  |
| 10,700.00                    | 7,277.00              | 10,588.03             | 7,094.00              | 29.04            | 29.21         | 81.87                 | 1,251.60               | 1,193.85                | 57.75                     | 21.673            | 0                        |                              |  |
| 10,800.00                    | 7,277.00              | 10,688.03             | 7,094.00              | 29.68            | 29.84         | 81.87                 | 1,251.60               | 1,192.59                | 59.01                     | 21.210            | 0                        |                              |  |
| 10,900.00                    | 7,277.00              | 10,788.03             | 7,094.00              | 30.32            | 30.47         | 81.87                 | 1,251.60               | 1,191.33                | 60.28                     | 20.764            | 0                        |                              |  |
| 11,000.00                    | 7,277.00              | 10,888.03             | 7,094.00              | 30.96            | 31.11         | 81.87                 | 1,251.60               | 1,190.05                | 61.55                     | 20.335            | 0                        |                              |  |
| 11,100.00                    | 7,277.00              | 10,988.03             | 7,094.00              | 31.60            | 31.75         | 81.87                 | 1,251.60               | 1,188.78                | 62.82                     | 19.922            | 0                        |                              |  |
| 11,200.00                    | 7,277.00              | 11,088.03             | 7,094.00              | 32.25            | 32.39         | 81.87                 | 1,251.60               | 1,187.50                | 64.11                     | 19.524            | 0                        |                              |  |
| 11,300.00                    | 7,277.00              | 11,188.03             | 7,094.00              | 32.89            | 33.04         | 81.87                 | 1,251.60               | 1,186.21                | 65.39                     | 19.140            | 0                        |                              |  |
| 11,400.00                    | 7,277.00              | 11,288.03             | 7,094.00              | 33.54            | 33.68         | 81.87                 | 1,251.60               | 1,184.92                | 66.68                     | 18.769            | 0                        |                              |  |
| 11,500.00                    | 7,277.00              | 11,388.03             | 7,094.00              | 34.20            | 34.33         | 81.87                 | 1,251.60               | 1,183.62                | 67.98                     | 18.412            | 0                        |                              |  |
| 11,600.00                    | 7,277.00              | 11,488.03             | 7,094.00              | 34.85            | 34.98         | 81.87                 | 1,251.60               | 1,182.32                | 69.28                     | 18.066            | 0                        |                              |  |
| 11,700.00                    | 7,277.00              | 11,588.03             | 7,094.00              | 35.51            | 35.64         | 81.87                 | 1,251.60               | 1,181.02                | 70.58                     | 17.733            | 0                        |                              |  |
| 11,800.00                    | 7,277.00              | 11,688.03             | 7,094.00              | 36.16            | 36.29         | 81.87                 | 1,251.60               | 1,179.72                | 71.89                     | 17.411            | 0                        |                              |  |
| 11,900.00                    | 7,277.00              | 11,788.03             | 7,094.00              | 36.82            | 36.95         | 81.87                 | 1,251.60               | 1,178.41                | 73.20                     | 17.099            | 0                        |                              |  |
| 12,000.00                    | 7,277.00              | 11,888.03             | 7,094.00              | 37.49            | 37.61         | 81.87                 | 1,251.60               | 1,177.09                | 74.51                     | 16.798            | 0                        |                              |  |
| 12,100.00                    | 7,277.00              | 11,988.03             | 7,094.00              | 38.15            | 38.27         | 81.87                 | 1,251.60               | 1,175.78                | 75.82                     | 16.507            | 0                        |                              |  |
| 12,200.00                    | 7,277.00              | 12,088.03             | 7,094.00              | 38.81            | 38.93         | 81.87                 | 1,251.60               | 1,174.46                | 77.14                     | 16.225            | 0                        |                              |  |
| 12,300.00                    | 7,277.00              | 12,188.03             | 7,094.00              | 39.48            | 39.59         | 81.87                 | 1,251.60               | 1,173.14                | 78.46                     | 15.951            | 0                        |                              |  |
| 12,400.00                    | 7,277.00              | 12,288.03             | 7,094.00              | 40.15            | 40.25         | 81.87                 | 1,251.60               | 1,171.81                | 79.79                     | 15.687            | 0                        |                              |  |
| 12,500.00                    | 7,277.00              | 12,388.03             | 7,094.00              | 40.81            | 40.92         | 81.87                 | 1,251.60               | 1,170.49                | 81.11                     | 15.430            | 0                        |                              |  |
| 12,600.00                    | 7,277.00              | 12,488.03             | 7,094.00              | 41.48            | 41.59         | 81.87                 | 1,251.60               | 1,169.16                | 82.44                     | 15.182            | 0                        |                              |  |
| 12,700.00                    | 7,277.00              | 12,588.03             | 7,094.00              | 42.15            | 42.26         | 81.87                 | 1,251.60               | 1,167.83                | 83.77                     | 14.941            | 0                        |                              |  |
| 12,800.00                    | 7,277.00              | 12,688.03             | 7,094.00              | 42.82            | 42.93         | 81.87                 | 1,251.60               | 1,166.50                | 85.10                     | 14.707            | 0                        |                              |  |
| 12,900.00                    | 7,277.00              | 12,788.03             | 7,094.00              | 43.50            | 43.60         | 81.87                 | 1,251.60               | 1,165.16                | 86.44                     | 14.480            | 0                        |                              |  |
| 13,000.00                    | 7,277.00              | 12,888.03             | 7,094.00              | 44.17            | 44.27         | 81.87                 | 1,251.60               | 1,163.83                | 87.78                     | 14.259            | 0                        |                              |  |
| 13,100.00                    | 7,277.00              | 12,988.03             | 7,094.00              | 44.85            | 44.94         | 81.87                 | 1,251.60               | 1,162.49                | 89.11                     | 14.045            | 0                        |                              |  |
| 13,200.00                    | 7,277.00              | 13,088.03             | 7,094.00              | 45.52            | 45.61         | 81.87                 | 1,251.60               | 1,161.15                | 90.45                     | 13.837            | 0                        |                              |  |
| 13,300.00                    | 7,277.00              | 13,188.03             | 7,094.00              | 46.20            | 46.29         | 81.87                 | 1,251.60               | 1,159.81                | 91.80                     | 13.635            | 0                        |                              |  |
| 13,400.00                    | 7,277.00              | 13,288.03             | 7,094.00              | 46.87            | 46.96         | 81.87                 | 1,251.60               | 1,158.46                | 93.14                     | 13.438            | 0                        |                              |  |
| 13,500.00                    | 7,277.00              | 13,388.03             | 7,094.00              | 47.55            | 47.64         | 81.87                 | 1,251.60               | 1,157.12                | 94.48                     | 13.247            | 0                        |                              |  |
| 13,600.00                    | 7,277.00              | 13,488.03             | 7,094.00              | 48.23            | 48.31         | 81.87                 | 1,251.60               | 1,155.77                | 95.83                     | 13.061            | 0                        |                              |  |
| 13,700.00                    | 7,277.00              | 13,588.03             | 7,094.00              | 48.91            | 48.99         | 81.87                 | 1,251.60               | 1,154.42                | 97.18                     | 12.879            | 0                        |                              |  |
| 13,800.00                    | 7,277.00              | 13,688.03             | 7,094.00              | 49.59            | 49.67         | 81.87                 | 1,251.60               | 1,153.07                | 98.53                     | 12.703            | 0                        |                              |  |
| 13,900.00                    | 7,277.00              | 13,788.03             | 7,094.00              | 50.27            | 50.35         | 81.87                 | 1,251.60               | 1,151.72                | 99.88                     | 12.531            | 0                        |                              |  |
| 14,000.00                    | 7,277.00              | 13,888.03             | 7,094.00              | 50.95            | 51.03         | 81.87                 | 1,251.60               | 1,150.37                | 101.23                    | 12.364            | 0                        |                              |  |
| 14,100.00                    | 7,277.00              | 13,988.03             | 7,094.00              | 51.63            | 51.71         | 81.87                 | 1,251.60               | 1,149.02                | 102.58                    | 12.201            | 0                        |                              |  |
| 14,200.00                    | 7,277.00              | 14,088.03             | 7,094.00              | 52.31            | 52.39         | 81.87                 | 1,251.60               | 1,147.67                | 103.94                    | 12.042            | 0                        |                              |  |
| 14,300.00                    | 7,277.00              | 14,188.03             | 7,094.00              | 53.00            | 53.07         | 81.87                 | 1,251.60               | 1,146.31                | 105.29                    | 11.887            | 0                        |                              |  |
| 14,400.00                    | 7,277.00              | 14,288.03             | 7,094.00              | 53.68            | 53.75         | 81.87                 | 1,251.60               | 1,144.95                | 106.65                    | 11.736            | 0                        |                              |  |
| 14,500.00                    | 7,277.00              | 14,388.03             | 7,094.00              | 54.36            | 54.43         | 81.87                 | 1,251.60               | 1,143.60                | 108.00                    | 11.588            | 0                        |                              |  |
| 14,600.00                    | 7,277.00              | 14,488.03             | 7,094.00              | 55.05            | 55.12         | 81.87                 | 1,251.60               | 1,142.24                | 109.36                    | 11.445            | 0                        |                              |  |

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





**Schlumberger**  
Anticollision Risk Report

**PATHFINDER**  
A Schlumberger Company

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

| <b>Offset Design</b> Sec.28-T07N-R67W - Nelson Farm #9 - Original Hole - Rev 0 |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <b>Offset Site Error:</b> | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------|-------------------------|--------------------------|---------------------------|-----------|
| Survey Program: 0-Pathfinder   |                       |                       |                       |                  |               |                       |                        |                         |                           |                   |                         |                          | <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 (°) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Riskd Separation Factor | Probability of Collision |                           |           |
| 14,700.00  | 7,277.00              | 14,588.03             | 7,094.00              | 55.73            | 55.80         | 81.87                 | 1,251.60               | 1,140.88                | 110.72                    | 11.304            | 0                       |                          |                           |           |
| 14,800.00  | 7,277.00              | 14,688.03             | 7,094.00              | 56.42            | 56.49         | 81.87                 | 1,251.60               | 1,139.52                | 112.08                    | 11.167            | 0                       |                          |                           |           |
| 14,900.00  | 7,277.00              | 14,788.03             | 7,094.00              | 57.11            | 57.17         | 81.87                 | 1,251.60               | 1,138.16                | 113.44                    | 11.033            | 0                       |                          |                           |           |
| 15,000.00  | 7,277.00              | 14,888.03             | 7,094.00              | 57.79            | 57.85         | 81.87                 | 1,251.60               | 1,136.80                | 114.80                    | 10.902            | 0                       |                          |                           |           |
| 15,048.84  | 7,277.00              | 14,936.73             | 7,094.00              | 58.13            | 58.19         | 81.87                 | 1,251.61               | 1,136.14                | 115.47                    | 10.839            | 0                       |                          | SF                        |           |

|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to KB @ 4988.00usft (Xtreme 7 - 16')

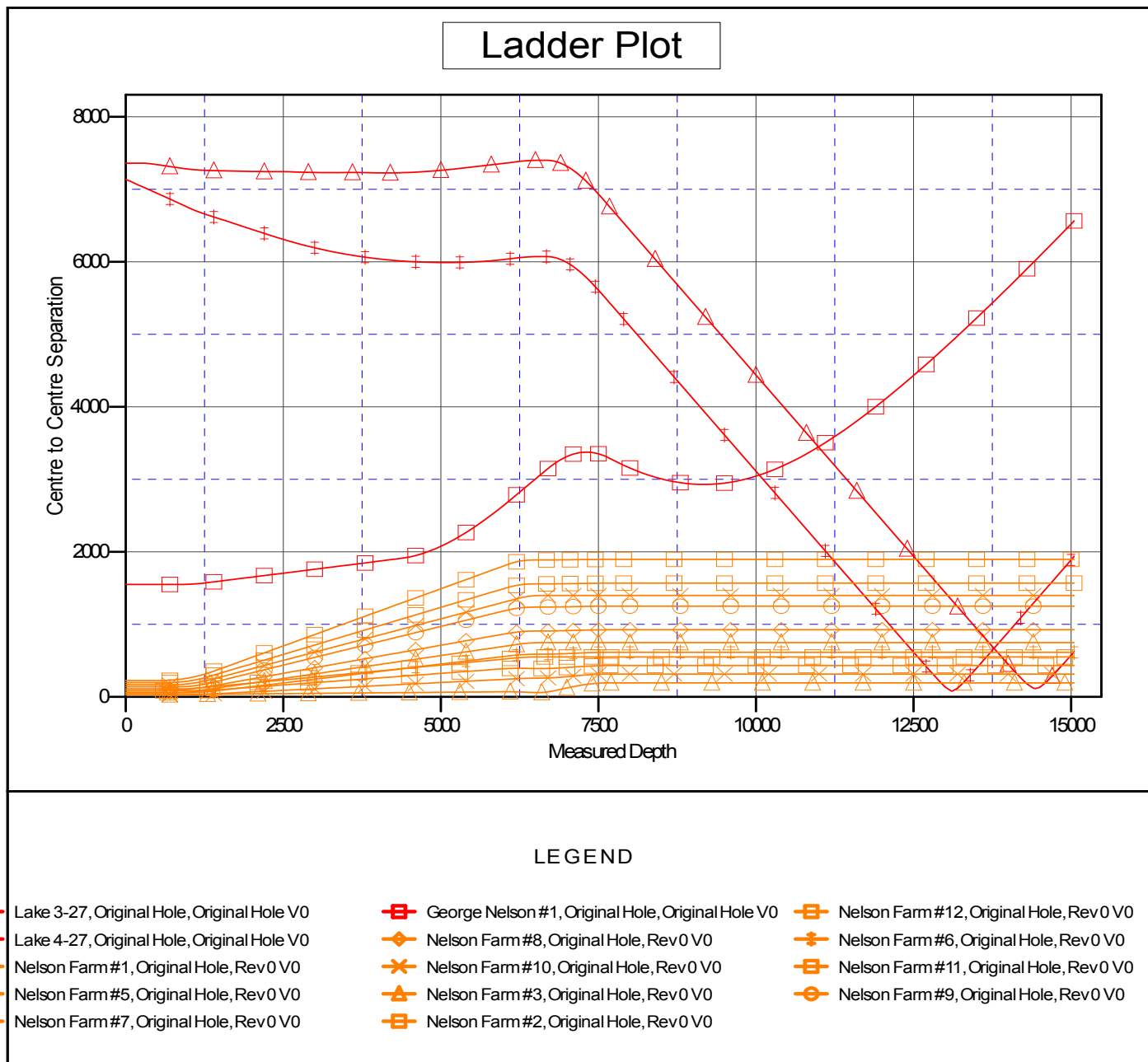
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W °

Coordinates are relative to: Nelson Farm #4

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.38°



|                           |                      |                                     |                                   |
|---------------------------|----------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>           | Extraction Oil & Gas | <b>Local Co-ordinate Reference:</b> | Well Nelson Farm #4               |
| <b>Project:</b>           | Weld Co., Co         | <b>TVD Reference:</b>               | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Reference Site:</b>    | Sec.28-T07N-R67W     | <b>MD Reference:</b>                | KB @ 4988.00usft (Xtreme 7 - 16') |
| <b>Site Error:</b>        | 0.00                 | <b>North Reference:</b>             | Grid                              |
| <b>Reference Well:</b>    | Nelson Farm #4       | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Well Error:</b>        | 0.00                 | <b>Output errors are at</b>         | 2.00 sigma                        |
| <b>Reference Wellbore</b> | Original Hole        | <b>Database:</b>                    | EDM 5000.1 Single User Db         |
| <b>Reference Design:</b>  | Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                      |

Reference Depths are relative to KB @ 4988.00usft (Xtreme 7 - 16')

Offset Depths are relative to Offset Datum

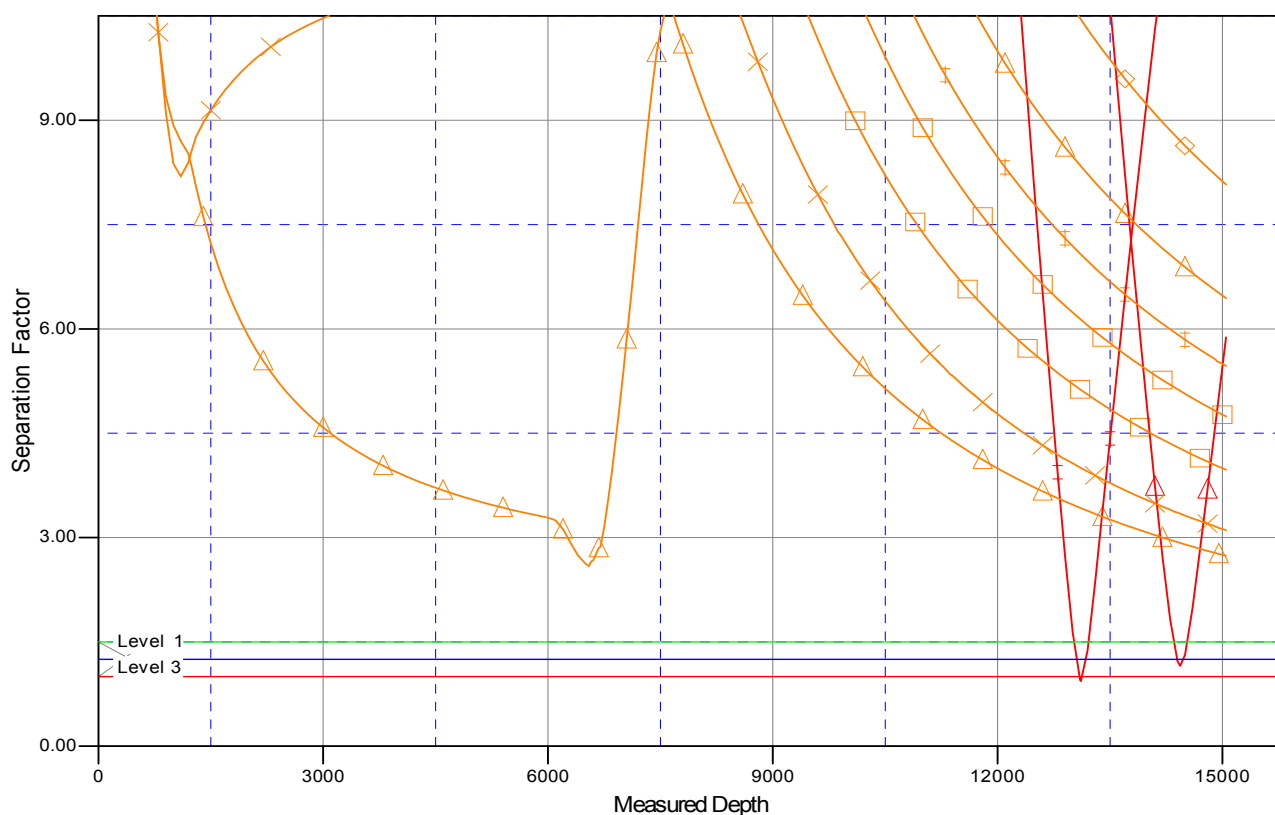
Central Meridian is 105° 30' 0.000 W °

Coordinates are relative to: Nelson Farm #4

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.38°

## Separation Factor Plot



### LEGEND

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>Lake 3-27, Original Hole, Original Hole V0</li> <li>Lake 4-27, Original Hole, Original Hole V0</li> <li>Nelson Farm #1, Original Hole, Rev0 V0</li> <li>Nelson Farm #5, Original Hole, Rev0 V0</li> <li>Nelson Farm #7, Original Hole, Rev0 V0</li> </ul> | <ul style="list-style-type: none"> <li>George Nelson #1, Original Hole, Original Hole V0</li> <li>Nelson Farm #8, Original Hole, Rev0 V0</li> <li>Nelson Farm #10, Original Hole, Rev0 V0</li> <li>Nelson Farm #3, Original Hole, Rev0 V0</li> <li>Nelson Farm #2, Original Hole, Rev0 V0</li> </ul> | <ul style="list-style-type: none"> <li>Nelson Farm #12, Original Hole, Rev0 V0</li> <li>Nelson Farm #6, Original Hole, Rev0 V0</li> <li>Nelson Farm #11, Original Hole, Rev0 V0</li> <li>Nelson Farm #9, Original Hole, Rev0 V0</li> </ul> |
|--|--|--|