

# **DEVON ENERGY**

Lea County, NM (NAD-83)

Seawolf 1-12 Fed

94H

OH

Plan #1

**HOBBS OCD**

**MAY 08 2017**

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## **Anticollision Report**

27 October, 2016

# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

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

| Survey Tool Program |              | Date              | 10/27/2016   |                |  |
|---------------------|--------------|-------------------|--------------|----------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name    | Description    |  |
| 0.00                | 22,832.89    | Plan #1 (OH)      | LEAM MWD-ADJ | MWD - Standard |  |

| 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 |                                 |                              |                                 |                                  |                   |                     |
| Seawolf 1-12 Fed                |                                 |                              |                                 |                                  |                   |                     |
| 84H - OH - Plan #1              | 22,833.77                       | 22,530.69                    | 482.09                          | 130.42                           | 1.371             | Level 3, CC, ES, SF |
| 85H - OH - Plan #1              | 3,500.00                        | 3,499.30                     | 29.94                           | 14.49                            | 1.937             | CC                  |
| 85H - OH - Plan #1              | 3,600.00                        | 3,599.30                     | 30.08                           | 14.19                            | 1.893             | ES                  |
| 85H - OH - Plan #1              | 22,833.77                       | 22,534.57                    | 475.40                          | 121.40                           | 1.343             | Level 3, SF         |
| 86H - OH - Plan #1              | 3,500.00                        | 3,499.50                     | 58.31                           | 42.86                            | 3.773             | CC, ES              |
| 86H - OH - Plan #1              | 22,833.77                       | 22,554.56                    | 1,362.30                        | 993.99                           | 3.699             | SF                  |
| 95H - OH - Plan #1              | 3,500.00                        | 3,500.30                     | 49.97                           | 34.51                            | 3.233             | CC, ES              |
| 95H - OH - Plan #1              | 22,833.77                       | 22,673.56                    | 854.07                          | 483.95                           | 2.308             | SF                  |

| Offset Design      Seawolf 1-12 Fed - 84H - OH - Plan #1 |          |          |          |                 |        |          |                        |           |          |          |            |            | Offset Site Error:      0.00 usft |  |
|----------------------------------------------------------|----------|----------|----------|-----------------|--------|----------|------------------------|-----------|----------|----------|------------|------------|-----------------------------------|--|
| Survey Program:      0-LEAM MWD-ADJ                      |          |          |          |                 |        |          |                        |           |          |          |            |            | Offset Well Error:      0.00 usft |  |
| Reference                                                |          | Offset   |          | Semi Major Axis |        |          | Distance               |           |          |          |            |            |                                   |  |
| Measured Depth                                           | Vertical | Measured | Vertical | Reference       | Offset | Highside | Offset Wellbore Centre |           | Between  | Between  | Minimum    | Separation | Warning                           |  |
| (usft)                                                   | Depth    | Depth    | Depth    |                 |        | Toolface | +N/-S                  | +E/-W     | Centres  | Ellipses | Separation | Factor     |                                   |  |
|                                                          |          |          |          | (usft)          | (usft) | (°)      | (usft)                 | (usft)    | (usft)   | (usft)   | (usft)     |            |                                   |  |
| 0.00                                                     | 0.00     | 0.00     | 0.00     | 0.00            | 0.00   | -90.12   | -3.95                  | -1,957.80 | 1,957.82 |          |            |            |                                   |  |
| 100.00                                                   | 100.00   | 91.90    | 91.90    | 0.09            | 0.08   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,957.64 | 0.16       | N/A        |                                   |  |
| 200.00                                                   | 200.00   | 191.90   | 191.90   | 0.31            | 0.29   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,957.20 | 0.60       | 3,245.308  |                                   |  |
| 300.00                                                   | 300.00   | 291.90   | 291.90   | 0.54            | 0.52   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,956.75 | 1.05       | 1,859.609  |                                   |  |
| 400.00                                                   | 400.00   | 391.90   | 391.90   | 0.76            | 0.74   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,956.30 | 1.50       | 1,303.173  |                                   |  |
| 500.00                                                   | 500.00   | 491.90   | 491.90   | 0.99            | 0.97   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,955.85 | 1.95       | 1,003.041  |                                   |  |
| 600.00                                                   | 600.00   | 591.90   | 591.90   | 1.21            | 1.19   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,955.40 | 2.40       | 815.276    |                                   |  |
| 700.00                                                   | 700.00   | 691.90   | 691.90   | 1.43            | 1.42   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,954.95 | 2.85       | 686.724    |                                   |  |
| 800.00                                                   | 800.00   | 791.90   | 791.90   | 1.66            | 1.64   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,954.50 | 3.30       | 593.190    |                                   |  |
| 900.00                                                   | 900.00   | 891.90   | 891.90   | 1.88            | 1.87   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,954.05 | 3.75       | 522.082    |                                   |  |
| 1,000.00                                                 | 1,000.00 | 991.90   | 991.90   | 2.11            | 2.09   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,953.60 | 4.20       | 466.196    |                                   |  |
| 1,100.00                                                 | 1,100.00 | 1,091.90 | 1,091.90 | 2.33            | 2.32   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,953.15 | 4.65       | 421.118    |                                   |  |
| 1,200.00                                                 | 1,200.00 | 1,191.90 | 1,191.90 | 2.56            | 2.54   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,952.71 | 5.10       | 383.989    |                                   |  |
| 1,300.00                                                 | 1,300.00 | 1,291.90 | 1,291.90 | 2.78            | 2.76   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,952.26 | 5.55       | 352.877    |                                   |  |
| 1,400.00                                                 | 1,400.00 | 1,391.90 | 1,391.90 | 3.01            | 2.99   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,951.81 | 6.00       | 326.428    |                                   |  |
| 1,500.00                                                 | 1,500.00 | 1,491.90 | 1,491.90 | 3.23            | 3.21   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,951.36 | 6.45       | 303.668    |                                   |  |
| 1,600.00                                                 | 1,600.00 | 1,591.90 | 1,591.90 | 3.46            | 3.44   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,950.91 | 6.90       | 283.875    |                                   |  |
| 1,700.00                                                 | 1,700.00 | 1,691.90 | 1,691.90 | 3.68            | 3.66   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,950.46 | 7.35       | 266.504    |                                   |  |
| 1,800.00                                                 | 1,800.00 | 1,791.90 | 1,791.90 | 3.91            | 3.89   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,950.01 | 7.80       | 251.136    |                                   |  |
| 1,900.00                                                 | 1,900.00 | 1,891.90 | 1,891.90 | 4.13            | 4.11   | -90.12   | -3.95                  | -1,957.80 | 1,957.80 | 1,949.56 | 8.25       | 237.444    |                                   |  |

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



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 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design      Seawolf 1-12 Fed - 84H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error:      0.00 usft |  |
|----------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------|--|
| Survey Program:      0-LEAM MWD-ADJ                      |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:      0.00 usft |  |
| Reference                                                |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   | Warning                           |  |
| Measured Depth (usft)                                    | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                   |  |
| 2,000.00                                                 | 2,000.00              | 1,991.90              | 1,991.90              | 4.36             | 4.34          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,949.11                | 8.69                      | 225.168           |                                   |  |
| 2,100.00                                                 | 2,100.00              | 2,091.90              | 2,091.90              | 4.58             | 4.56          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,948.66                | 9.14                      | 214.099           |                                   |  |
| 2,200.00                                                 | 2,200.00              | 2,191.90              | 2,191.90              | 4.81             | 4.79          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,948.21                | 9.59                      | 204.067           |                                   |  |
| 2,300.00                                                 | 2,300.00              | 2,291.90              | 2,291.90              | 5.03             | 5.01          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,947.76                | 10.04                     | 194.933           |                                   |  |
| 2,400.00                                                 | 2,400.00              | 2,391.90              | 2,391.90              | 5.26             | 5.24          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,947.31                | 10.49                     | 186.582           |                                   |  |
| 2,500.00                                                 | 2,500.00              | 2,491.90              | 2,491.90              | 5.48             | 5.46          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,946.86                | 10.94                     | 178.917           |                                   |  |
| 2,600.00                                                 | 2,600.00              | 2,591.90              | 2,591.90              | 5.71             | 5.69          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,946.41                | 11.39                     | 171.857           |                                   |  |
| 2,700.00                                                 | 2,700.00              | 2,691.90              | 2,691.90              | 5.93             | 5.91          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,945.96                | 11.84                     | 165.333           |                                   |  |
| 2,800.00                                                 | 2,800.00              | 2,791.90              | 2,791.90              | 6.15             | 6.14          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,945.51                | 12.29                     | 159.286           |                                   |  |
| 2,900.00                                                 | 2,900.00              | 2,891.90              | 2,891.90              | 6.38             | 6.36          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,945.06                | 12.74                     | 153.666           |                                   |  |
| 3,000.00                                                 | 3,000.00              | 2,991.90              | 2,991.90              | 6.60             | 6.59          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,944.61                | 13.19                     | 148.429           |                                   |  |
| 3,100.00                                                 | 3,100.00              | 3,091.90              | 3,091.90              | 6.83             | 6.81          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,944.16                | 13.64                     | 143.537           |                                   |  |
| 3,200.00                                                 | 3,200.00              | 3,191.90              | 3,191.90              | 7.05             | 7.04          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,943.71                | 14.09                     | 138.957           |                                   |  |
| 3,300.00                                                 | 3,300.00              | 3,291.90              | 3,291.90              | 7.28             | 7.26          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,943.27                | 14.54                     | 134.661           |                                   |  |
| 3,400.00                                                 | 3,400.00              | 3,391.90              | 3,391.90              | 7.50             | 7.49          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,942.82                | 14.99                     | 130.622           |                                   |  |
| 3,500.00                                                 | 3,500.00              | 3,491.90              | 3,491.90              | 7.73             | 7.71          | -90.12                | -3.95                               | -1,957.80    | 1,957.80               | 1,942.37                | 15.44                     | 126.819           |                                   |  |
| 3,600.00                                                 | 3,600.00              | 3,639.53              | 3,639.52              | 7.94             | 8.02          | -8.12                 | -3.95                               | -1,956.10    | 1,955.82               | 1,939.87                | 15.95                     | 122.590           |                                   |  |
| 3,700.00                                                 | 3,699.96              | 3,790.93              | 3,790.80              | 8.14             | 8.32          | -8.15                 | -3.95                               | -1,950.42    | 1,949.48               | 1,933.03                | 16.45                     | 118.527           |                                   |  |
| 3,800.00                                                 | 3,799.86              | 3,941.42              | 3,940.98              | 8.35             | 8.63          | -8.19                 | -3.95                               | -1,940.80    | 1,938.79               | 1,921.85                | 16.94                     | 114.461           |                                   |  |
| 3,900.00                                                 | 3,899.68              | 4,060.15              | 4,059.29              | 8.56             | 8.88          | -8.25                 | -3.95                               | -1,930.76    | 1,924.27               | 1,906.90                | 17.36                     | 110.825           |                                   |  |
| 4,000.00                                                 | 3,999.37              | 4,158.78              | 4,157.54              | 8.77             | 9.09          | -8.30                 | -3.95                               | -1,922.16    | 1,907.84               | 1,890.10                | 17.74                     | 107.524           |                                   |  |
| 4,100.00                                                 | 4,098.90              | 4,257.11              | 4,255.50              | 8.98             | 9.30          | -8.37                 | -3.95                               | -1,913.59    | 1,889.72               | 1,871.60                | 18.12                     | 104.292           |                                   |  |
| 4,200.00                                                 | 4,198.26              | 4,355.12              | 4,353.13              | 9.21             | 9.52          | -8.46                 | -3.95                               | -1,905.05    | 1,869.90               | 1,851.41                | 18.49                     | 101.123           |                                   |  |
| 4,300.00                                                 | 4,297.40              | 4,452.75              | 4,450.40              | 9.44             | 9.74          | -8.55                 | -3.95                               | -1,896.54    | 1,848.39               | 1,829.53                | 18.86                     | 98.012            |                                   |  |
| 4,400.00                                                 | 4,396.43              | 4,550.20              | 4,547.48              | 9.68             | 9.96          | -8.62                 | -3.95                               | -1,888.04    | 1,826.04               | 1,806.78                | 19.27                     | 94.771            |                                   |  |
| 4,500.00                                                 | 4,495.46              | 4,647.65              | 4,644.55              | 9.93             | 10.18         | -8.69                 | -3.95                               | -1,879.55    | 1,803.70               | 1,784.02                | 19.68                     | 91.652            |                                   |  |
| 4,600.00                                                 | 4,594.48              | 4,745.10              | 4,741.63              | 10.18            | 10.40         | -8.76                 | -3.95                               | -1,871.06    | 1,781.36               | 1,761.26                | 20.09                     | 88.649            |                                   |  |
| 4,700.00                                                 | 4,693.51              | 4,842.55              | 4,838.71              | 10.43            | 10.63         | -8.83                 | -3.95                               | -1,862.56    | 1,759.02               | 1,738.51                | 20.51                     | 85.757            |                                   |  |
| 4,800.00                                                 | 4,792.54              | 4,940.00              | 4,935.79              | 10.69            | 10.86         | -8.90                 | -3.95                               | -1,854.07    | 1,736.68               | 1,715.75                | 20.93                     | 82.971            |                                   |  |
| 4,900.00                                                 | 4,891.56              | 5,037.45              | 5,032.87              | 10.96            | 11.09         | -8.98                 | -3.95                               | -1,845.58    | 1,714.35               | 1,693.00                | 21.35                     | 80.287            |                                   |  |
| 5,000.00                                                 | 4,990.59              | 5,134.90              | 5,129.94              | 11.22            | 11.32         | -9.06                 | -3.95                               | -1,837.08    | 1,692.02               | 1,670.24                | 21.78                     | 77.698            |                                   |  |
| 5,100.00                                                 | 5,089.62              | 5,232.35              | 5,227.02              | 11.50            | 11.55         | -9.14                 | -3.95                               | -1,828.59    | 1,669.69               | 1,647.49                | 22.20                     | 75.202            |                                   |  |
| 5,200.00                                                 | 5,188.64              | 5,329.79              | 5,324.10              | 11.77            | 11.79         | -9.22                 | -3.95                               | -1,820.10    | 1,647.37               | 1,624.74                | 22.63                     | 72.794            |                                   |  |
| 5,300.00                                                 | 5,287.67              | 5,427.24              | 5,421.18              | 12.05            | 12.02         | -9.30                 | -3.95                               | -1,811.60    | 1,625.05               | 1,601.99                | 23.06                     | 70.470            |                                   |  |
| 5,400.00                                                 | 5,386.70              | 5,524.69              | 5,518.26              | 12.33            | 12.26         | -9.39                 | -3.95                               | -1,803.11    | 1,602.73               | 1,579.24                | 23.49                     | 68.226            |                                   |  |
| 5,500.00                                                 | 5,485.72              | 5,622.14              | 5,615.33              | 12.62            | 12.50         | -9.48                 | -3.95                               | -1,794.62    | 1,580.42               | 1,556.49                | 23.92                     | 66.059            |                                   |  |
| 5,600.00                                                 | 5,584.75              | 5,719.59              | 5,712.41              | 12.91            | 12.74         | -9.57                 | -3.95                               | -1,786.13    | 1,558.11               | 1,533.75                | 24.36                     | 63.965            |                                   |  |
| 5,700.00                                                 | 5,683.78              | 5,817.04              | 5,809.49              | 13.20            | 12.98         | -9.66                 | -3.95                               | -1,777.63    | 1,535.80               | 1,511.01                | 24.79                     | 61.940            |                                   |  |
| 5,800.00                                                 | 5,782.81              | 5,914.49              | 5,906.57              | 13.49            | 13.22         | -9.76                 | -3.95                               | -1,769.14    | 1,513.50               | 1,488.27                | 25.23                     | 59.982            |                                   |  |
| 5,900.00                                                 | 5,881.83              | 6,011.94              | 6,003.65              | 13.78            | 13.46         | -9.86                 | -3.95                               | -1,760.65    | 1,491.20               | 1,465.53                | 25.67                     | 58.088            |                                   |  |
| 6,000.00                                                 | 5,980.86              | 6,109.38              | 6,100.72              | 14.08            | 13.71         | -9.96                 | -3.95                               | -1,752.15    | 1,468.91               | 1,442.80                | 26.11                     | 56.255            |                                   |  |
| 6,100.00                                                 | 6,079.89              | 6,206.83              | 6,197.80              | 14.38            | 13.95         | -10.07                | -3.95                               | -1,743.66    | 1,446.62               | 1,420.07                | 26.55                     | 54.480            |                                   |  |
| 6,200.00                                                 | 6,178.91              | 6,304.28              | 6,294.88              | 14.67            | 14.20         | -10.18                | -3.95                               | -1,735.17    | 1,424.34               | 1,397.34                | 27.00                     | 52.761            |                                   |  |
| 6,300.00                                                 | 6,277.94              | 6,401.73              | 6,391.96              | 14.98            | 14.44         | -10.29                | -3.95                               | -1,726.67    | 1,402.06               | 1,374.62                | 27.44                     | 51.095            |                                   |  |
| 6,400.00                                                 | 6,376.97              | 6,499.18              | 6,489.04              | 15.28            | 14.69         | -10.41                | -3.95                               | -1,718.18    | 1,379.78               | 1,351.90                | 27.89                     | 49.480            |                                   |  |
| 6,500.00                                                 | 6,475.99              | 6,596.63              | 6,586.11              | 15.58            | 14.94         | -10.53                | -3.95                               | -1,709.69    | 1,357.52               | 1,329.19                | 28.33                     | 47.915            |                                   |  |
| 6,600.00                                                 | 6,575.02              | 6,694.08              | 6,683.19              | 15.89            | 15.18         | -10.65                | -3.95                               | -1,701.19    | 1,335.26               | 1,306.48                | 28.78                     | 46.396            |                                   |  |
| 6,700.00                                                 | 6,674.05              | 6,791.53              | 6,780.27              | 16.20            | 15.43         | -10.78                | -3.95                               | -1,692.70    | 1,313.00               | 1,283.77                | 29.23                     | 44.922            |                                   |  |
| 6,800.00                                                 | 6,773.07              | 6,888.98              | 6,877.35              | 16.50            | 15.68         | -10.92                | -3.95                               | -1,684.21    | 1,290.75               | 1,261.07                | 29.68                     | 43.492            |                                   |  |
| 6,900.00                                                 | 6,872.10              | 6,986.42              | 6,974.43              | 16.81            | 15.93         | -11.05                | -3.95                               | -1,675.71    | 1,268.51               | 1,238.38                | 30.13                     | 42.103            |                                   |  |
| 7,000.00                                                 | 6,971.13              | 7,083.87              | 7,071.50              | 17.12            | 16.18         | -11.20                | -3.95                               | -1,667.22    | 1,246.27               | 1,215.69                | 30.58                     | 40.754            |                                   |  |
| 7,100.00                                                 | 7,070.15              | 7,181.32              | 7,168.58              | 17.44            | 16.43         | -11.34                | -3.95                               | -1,658.73    | 1,224.05               | 1,193.01                | 31.03                     | 39.443            |                                   |  |

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



# LEAM Drilling Systems LLC

## Anticollision Report

**Company:** DEVON ENERGY  
**Project:** Lea County, NM (NAD-83)  
**Reference Site:** Seawolf 1-12 Fed  
**Site Error:** 0.00 usft  
**Reference Well:** 94H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 94H  
**TVD Reference:** 3325.4' GE @ 3348.90usft  
**MD Reference:** 3325.4' GE @ 3348.90usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.1 Single User Db  
**Offset TVD Reference:** Offset Datum

| Offset Design Seawolf 1-12 Fed - 84H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|--------------------|-----------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Well Error: | 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                    |           |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |         |                    |           |
| 7,200.00                                            | 7,169.18                    | 7,278.77                    | 7,265.66                    | 17.75               | 16.68            | -11.50                      | -3.95                                     | -1,650.23       | 1,201.83                     | 1,170.34                      | 31.49                           | 38.168               |         |                    |           |
| 7,300.00                                            | 7,268.21                    | 7,376.22                    | 7,362.74                    | 18.06               | 16.94            | -11.66                      | -3.95                                     | -1,641.74       | 1,179.62                     | 1,147.67                      | 31.94                           | 36.929               |         |                    |           |
| 7,400.00                                            | 7,367.23                    | 7,473.67                    | 7,459.82                    | 18.38               | 17.19            | -11.82                      | -3.95                                     | -1,633.25       | 1,157.41                     | 1,125.02                      | 32.40                           | 35.724               |         |                    |           |
| 7,500.00                                            | 7,466.26                    | 7,571.12                    | 7,556.89                    | 18.69               | 17.44            | -11.99                      | -3.95                                     | -1,624.75       | 1,135.22                     | 1,102.37                      | 32.86                           | 34.551               |         |                    |           |
| 7,600.00                                            | 7,565.29                    | 7,668.57                    | 7,653.97                    | 19.01               | 17.69            | -12.17                      | -3.95                                     | -1,616.26       | 1,113.04                     | 1,079.73                      | 33.31                           | 33.410               |         |                    |           |
| 7,700.00                                            | 7,664.31                    | 7,766.01                    | 7,751.05                    | 19.32               | 17.95            | -12.36                      | -3.95                                     | -1,607.77       | 1,090.87                     | 1,057.09                      | 33.77                           | 32.299               |         |                    |           |
| 7,800.00                                            | 7,763.34                    | 7,863.46                    | 7,848.13                    | 19.64               | 18.20            | -12.55                      | -3.95                                     | -1,599.27       | 1,068.71                     | 1,034.47                      | 34.23                           | 31.217               |         |                    |           |
| 7,900.00                                            | 7,862.37                    | 7,960.91                    | 7,945.21                    | 19.96               | 18.45            | -12.75                      | -3.95                                     | -1,590.78       | 1,046.56                     | 1,011.86                      | 34.70                           | 30.164               |         |                    |           |
| 8,000.00                                            | 7,961.40                    | 8,058.36                    | 8,042.28                    | 20.28               | 18.71            | -12.96                      | -3.95                                     | -1,582.29       | 1,024.43                     | 989.27                        | 35.16                           | 29.137               |         |                    |           |
| 8,100.00                                            | 8,060.42                    | 8,155.81                    | 8,139.36                    | 20.60               | 18.96            | -13.18                      | -3.95                                     | -1,573.79       | 1,002.30                     | 966.68                        | 35.62                           | 28.136               |         |                    |           |
| 8,200.00                                            | 8,159.45                    | 8,253.26                    | 8,236.44                    | 20.92               | 19.22            | -13.41                      | -3.95                                     | -1,565.30       | 980.20                       | 944.11                        | 36.09                           | 27.161               |         |                    |           |
| 8,300.00                                            | 8,258.48                    | 8,350.71                    | 8,333.52                    | 21.24               | 19.48            | -13.65                      | -3.95                                     | -1,556.81       | 958.11                       | 921.55                        | 36.56                           | 26.210               |         |                    |           |
| 8,400.00                                            | 8,357.50                    | 8,448.16                    | 8,430.60                    | 21.56               | 19.73            | -13.90                      | -3.95                                     | -1,548.32       | 936.03                       | 899.01                        | 37.02                           | 25.282               |         |                    |           |
| 8,500.00                                            | 8,456.53                    | 8,545.61                    | 8,527.67                    | 21.88               | 19.99            | -14.17                      | -3.95                                     | -1,539.82       | 913.98                       | 876.48                        | 37.49                           | 24.377               |         |                    |           |
| 8,600.00                                            | 8,555.56                    | 8,643.05                    | 8,624.75                    | 22.20               | 20.24            | -14.45                      | -3.95                                     | -1,531.33       | 891.94                       | 853.98                        | 37.96                           | 23.494               |         |                    |           |
| 8,700.00                                            | 8,654.58                    | 8,740.50                    | 8,721.83                    | 22.53               | 20.50            | -14.74                      | -3.95                                     | -1,522.84       | 869.92                       | 831.49                        | 38.44                           | 22.632               |         |                    |           |
| 8,800.00                                            | 8,753.61                    | 8,837.95                    | 8,818.91                    | 22.85               | 20.76            | -15.04                      | -3.95                                     | -1,514.34       | 847.93                       | 809.02                        | 38.91                           | 21.791               |         |                    |           |
| 8,900.00                                            | 8,852.70                    | 8,935.50                    | 8,916.08                    | 23.14               | 21.02            | -15.33                      | -3.95                                     | -1,505.84       | 826.37                       | 786.97                        | 39.40                           | 20.976               |         |                    |           |
| 9,000.00                                            | 8,951.90                    | 9,033.23                    | 9,013.44                    | 23.39               | 21.27            | -15.61                      | -3.95                                     | -1,497.32       | 805.66                       | 765.80                        | 39.86                           | 20.211               |         |                    |           |
| 9,100.00                                            | 9,051.20                    | 9,131.14                    | 9,110.98                    | 23.63               | 21.53            | -15.90                      | -3.95                                     | -1,488.79       | 785.79                       | 745.47                        | 40.33                           | 19.486               |         |                    |           |
| 9,200.00                                            | 9,150.61                    | 9,229.23                    | 9,208.70                    | 23.87               | 21.79            | -16.18                      | -3.95                                     | -1,480.24       | 766.77                       | 725.99                        | 40.79                           | 18.799               |         |                    |           |
| 9,300.00                                            | 9,250.10                    | 9,327.49                    | 9,306.58                    | 24.10               | 22.05            | -16.46                      | -3.95                                     | -1,471.68       | 748.60                       | 707.35                        | 41.25                           | 18.150               |         |                    |           |
| 9,400.00                                            | 9,349.68                    | 9,425.90                    | 9,404.62                    | 24.33               | 22.31            | -16.74                      | -3.95                                     | -1,463.10       | 731.26                       | 689.56                        | 41.70                           | 17.535               |         |                    |           |
| 9,500.00                                            | 9,449.34                    | 9,524.46                    | 9,502.80                    | 24.55               | 22.57            | -17.01                      | -3.95                                     | -1,454.51       | 714.78                       | 672.62                        | 42.16                           | 16.955               |         |                    |           |
| 9,600.00                                            | 9,549.07                    | 9,623.16                    | 9,601.13                    | 24.76               | 22.84            | -17.27                      | -3.95                                     | -1,445.91       | 699.13                       | 656.52                        | 42.61                           | 16.408               |         |                    |           |
| 9,700.00                                            | 9,648.85                    | 9,722.01                    | 9,699.60                    | 24.97               | 23.10            | -17.53                      | -3.95                                     | -1,437.29       | 684.32                       | 641.27                        | 43.06                           | 15.894               |         |                    |           |
| 9,800.00                                            | 9,748.69                    | 9,820.98                    | 9,798.19                    | 25.17               | 23.36            | -17.77                      | -3.95                                     | -1,428.67       | 670.35                       | 626.85                        | 43.50                           | 15.410               |         |                    |           |
| 9,900.00                                            | 9,848.57                    | 9,920.07                    | 9,896.90                    | 25.36               | 23.63            | -18.01                      | -3.95                                     | -1,420.03       | 657.22                       | 613.28                        | 43.94                           | 14.956               |         |                    |           |
| 10,000.00                                           | 9,948.50                    | 10,019.27                   | 9,995.73                    | 25.55               | 23.89            | -18.23                      | -3.95                                     | -1,411.38       | 644.93                       | 600.55                        | 44.38                           | 14.531               |         |                    |           |
| 10,100.00                                           | 10,048.45                   | 10,118.58                   | 10,094.66                   | 25.74               | 24.15            | -18.44                      | -3.95                                     | -1,402.73       | 633.47                       | 588.65                        | 44.82                           | 14.135               |         |                    |           |
| 10,200.00                                           | 10,148.43                   | 10,217.99                   | 10,193.69                   | 25.91               | 24.42            | -18.63                      | -3.95                                     | -1,394.06       | 622.84                       | 577.59                        | 45.25                           | 13.765               |         |                    |           |
| 10,300.00                                           | 10,248.42                   | 10,317.48                   | 10,292.81                   | 26.08               | 24.69            | -18.80                      | -3.95                                     | -1,385.39       | 613.04                       | 567.36                        | 45.67                           | 13.422               |         |                    |           |
| 10,400.00                                           | 10,348.42                   | 10,417.06                   | 10,392.01                   | 26.25               | 24.95            | -19.06                      | -3.95                                     | -1,376.71       | 604.07                       | 557.95                        | 46.12                           | 13.098               |         |                    |           |
| 10,500.00                                           | 10,448.42                   | 10,515.87                   | 10,490.45                   | 26.42               | 25.21            | -19.11                      | -3.95                                     | -1,368.11       | 595.52                       | 548.97                        | 46.55                           | 12.794               |         |                    |           |
| 10,600.00                                           | 10,548.42                   | 10,610.74                   | 10,584.99                   | 26.60               | 25.43            | -19.12                      | -3.95                                     | -1,360.37       | 587.51                       | 540.55                        | 46.96                           | 12.511               |         |                    |           |
| 10,700.00                                           | 10,648.42                   | 10,705.72                   | 10,679.72                   | 26.79               | 25.63            | -19.10                      | -3.95                                     | -1,353.40       | 580.31                       | 532.96                        | 47.35                           | 12.255               |         |                    |           |
| 10,800.00                                           | 10,748.42                   | 10,800.00                   | 10,773.80                   | 26.98               | 25.82            | -19.12                      | -3.95                                     | -1,347.25       | 573.93                       | 526.19                        | 47.74                           | 12.021               |         |                    |           |
| 10,900.00                                           | 10,848.42                   | 10,896.00                   | 10,869.65                   | 27.16               | 26.01            | -19.13                      | -3.95                                     | -1,341.79       | 568.36                       | 520.23                        | 48.14                           | 11.807               |         |                    |           |
| 11,000.00                                           | 10,948.42                   | 10,991.28                   | 10,964.81                   | 27.35               | 26.20            | -19.12                      | -3.95                                     | -1,337.17       | 563.61                       | 515.08                        | 48.53                           | 11.614               |         |                    |           |
| 11,100.00                                           | 11,048.42                   | 11,086.62                   | 11,060.07                   | 27.54               | 26.38            | -19.10                      | -3.95                                     | -1,333.34       | 559.67                       | 510.75                        | 48.92                           | 11.441               |         |                    |           |
| 11,200.00                                           | 11,148.42                   | 11,182.02                   | 11,155.43                   | 27.73               | 26.56            | -19.17                      | -3.95                                     | -1,330.29       | 556.55                       | 507.24                        | 49.30                           | 11.288               |         |                    |           |
| 11,300.00                                           | 11,248.42                   | 11,277.47                   | 11,250.85                   | 27.92               | 26.73            | -19.19                      | -3.95                                     | -1,328.04       | 554.24                       | 504.55                        | 49.69                           | 11.153               |         |                    |           |
| 11,400.00                                           | 11,348.42                   | 11,372.95                   | 11,346.31                   | 28.11               | 26.90            | -19.14                      | -3.95                                     | -1,326.58       | 552.75                       | 502.67                        | 50.08                           | 11.038               |         |                    |           |
| 11,500.00                                           | 11,448.42                   | 11,468.44                   | 11,441.80                   | 28.30               | 27.07            | -19.16                      | -3.95                                     | -1,325.92       | 552.07                       | 501.61                        | 50.47                           | 10.940               |         |                    |           |
| 11,549.78                                           | 11,498.20                   | 11,516.74                   | 11,490.10                   | 28.39               | 27.15            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 501.37                        | 50.66                           | 10.896               |         |                    |           |
| 11,600.00                                           | 11,548.42                   | 11,566.95                   | 11,540.32                   | 28.49               | 27.25            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 501.16                        | 50.87                           | 10.853               |         |                    |           |
| 11,700.00                                           | 11,648.42                   | 11,666.95                   | 11,640.32                   | 28.68               | 27.44            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 500.75                        | 51.28                           | 10.765               |         |                    |           |
| 11,800.00                                           | 11,748.42                   | 11,766.95                   | 11,740.32                   | 28.87               | 27.63            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 500.33                        | 51.70                           | 10.678               |         |                    |           |
| 11,900.00                                           | 11,848.42                   | 11,866.95                   | 11,840.32                   | 29.06               | 27.83            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 499.91                        | 52.12                           | 10.592               |         |                    |           |
| 12,000.00                                           | 11,948.42                   | 11,966.95                   | 11,940.32                   | 29.25               | 28.03            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 499.49                        | 52.54                           | 10.507               |         |                    |           |
| 12,100.00                                           | 12,048.42                   | 12,066.95                   | 12,040.32                   | 29.45               | 28.23            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 499.07                        | 52.96                           | 10.424               |         |                    |           |
| 12,200.00                                           | 12,148.42                   | 12,166.95                   | 12,140.32                   | 29.64               | 28.42            | -19.16                      | -3.95                                     | -1,325.88       | 552.03                       | 498.65                        | 53.38                           | 10.342               |         |                    |           |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 84H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 12,300.00                                           | 12,248.42                   | 12,250.00                   | 12,223.21                   | 29.83               | 28.58            | -102.34                     | -7.69                                     | -1,325.88       | 553.07                       | 499.30                        | 53.78                           | 10.285               |                              |
| 12,400.00                                           | 12,348.41                   | 12,329.02                   | 12,300.43                   | 30.03               | 28.72            | 75.48                       | -23.99                                    | -1,325.85       | 557.81                       | 503.59                        | 54.22                           | 10.287               |                              |
| 12,500.00                                           | 12,447.13                   | 12,403.21                   | 12,369.58                   | 30.18               | 28.86            | 73.22                       | -50.68                                    | -1,325.82       | 563.54                       | 508.95                        | 54.59                           | 10.324               |                              |
| 12,600.00                                           | 12,540.62                   | 12,475.00                   | 12,431.77                   | 30.31               | 28.99            | 71.54                       | -86.40                                    | -1,325.77       | 568.15                       | 513.45                        | 54.70                           | 10.387               |                              |
| 12,700.00                                           | 12,624.80                   | 12,550.00                   | 12,490.26                   | 30.43               | 29.14            | 70.43                       | -133.22                                   | -1,325.71       | 571.12                       | 516.51                        | 54.62                           | 10.457               |                              |
| 12,800.00                                           | 12,695.99                   | 12,619.20                   | 12,537.13                   | 30.56               | 29.30            | 70.00                       | -184.06                                   | -1,325.64       | 572.11                       | 517.66                        | 54.46                           | 10.506               |                              |
| 12,900.00                                           | 12,751.07                   | 12,690.45                   | 12,577.18                   | 30.70               | 29.48            | 70.20                       | -242.90                                   | -1,325.57       | 570.99                       | 516.55                        | 54.44                           | 10.488               |                              |
| 13,000.00                                           | 12,787.65                   | 12,761.97                   | 12,608.14                   | 30.89               | 29.71            | 71.04                       | -307.30                                   | -1,325.48       | 567.83                       | 513.07                        | 54.76                           | 10.370               |                              |
| 13,100.00                                           | 12,804.11                   | 12,834.17                   | 12,629.30                   | 31.17               | 29.98            | 72.50                       | -376.25                                   | -1,325.39       | 562.88                       | 507.41                        | 55.47                           | 10.148               |                              |
| 13,200.00                                           | 12,805.05                   | 12,907.97                   | 12,639.94                   | 31.54               | 30.30            | 73.65                       | -449.21                                   | -1,325.30       | 558.09                       | 501.70                        | 56.39                           | 9.898                |                              |
| 13,300.00                                           | 12,805.12                   | 12,997.29                   | 12,641.00                   | 32.02               | 30.76            | 73.73                       | -538.50                                   | -1,325.18       | 556.88                       | 499.48                        | 57.40                           | 9.702                |                              |
| 13,400.00                                           | 12,805.20                   | 13,097.28                   | 12,640.94                   | 32.60               | 31.37            | 73.69                       | -638.50                                   | -1,325.05       | 556.08                       | 497.45                        | 58.64                           | 9.484                |                              |
| 13,500.00                                           | 12,805.27                   | 13,197.28                   | 12,640.89                   | 33.27               | 32.08            | 73.65                       | -738.50                                   | -1,324.92       | 555.28                       | 495.23                        | 60.05                           | 9.247                |                              |
| 13,600.00                                           | 12,805.34                   | 13,297.28                   | 12,640.84                   | 34.03               | 32.87            | 73.62                       | -838.49                                   | -1,324.79       | 554.49                       | 492.85                        | 61.64                           | 8.996                |                              |
| 13,700.00                                           | 12,805.41                   | 13,397.27                   | 12,640.79                   | 34.88               | 33.74            | 73.58                       | -938.49                                   | -1,324.65       | 553.69                       | 490.31                        | 63.37                           | 8.737                |                              |
| 13,800.00                                           | 12,805.48                   | 13,497.27                   | 12,640.73                   | 35.79               | 34.68            | 73.54                       | -1,038.49                                 | -1,324.52       | 552.89                       | 487.64                        | 65.26                           | 8.473                |                              |
| 13,900.00                                           | 12,805.56                   | 13,597.27                   | 12,640.68                   | 36.78               | 35.69            | 73.50                       | -1,138.48                                 | -1,324.39       | 552.10                       | 484.83                        | 67.27                           | 8.207                |                              |
| 14,000.00                                           | 12,805.63                   | 13,697.26                   | 12,640.63                   | 37.83               | 36.76            | 73.46                       | -1,238.48                                 | -1,324.26       | 551.30                       | 481.90                        | 69.40                           | 7.944                |                              |
| 14,100.00                                           | 12,805.70                   | 13,797.26                   | 12,640.58                   | 38.94               | 37.90            | 73.43                       | -1,338.47                                 | -1,324.13       | 550.51                       | 478.87                        | 71.64                           | 7.684                |                              |
| 14,200.00                                           | 12,805.77                   | 13,897.25                   | 12,640.52                   | 40.10               | 39.08            | 73.39                       | -1,438.47                                 | -1,324.00       | 549.71                       | 475.73                        | 73.98                           | 7.431                |                              |
| 14,300.00                                           | 12,805.85                   | 13,997.25                   | 12,640.47                   | 41.31               | 40.31            | 73.35                       | -1,538.47                                 | -1,323.87       | 548.91                       | 472.51                        | 76.40                           | 7.185                |                              |
| 14,400.00                                           | 12,805.92                   | 14,097.25                   | 12,640.42                   | 42.57               | 41.59            | 73.31                       | -1,638.46                                 | -1,323.74       | 548.12                       | 469.21                        | 78.91                           | 6.946                |                              |
| 14,500.00                                           | 12,805.99                   | 14,197.24                   | 12,640.37                   | 43.86               | 42.90            | 73.27                       | -1,738.46                                 | -1,323.60       | 547.33                       | 465.84                        | 81.49                           | 6.717                |                              |
| 14,600.00                                           | 12,806.06                   | 14,297.24                   | 12,640.31                   | 45.19               | 44.25            | 73.23                       | -1,838.45                                 | -1,323.47       | 546.53                       | 462.40                        | 84.13                           | 6.496                |                              |
| 14,700.00                                           | 12,806.13                   | 14,397.23                   | 12,640.26                   | 46.55               | 45.63            | 73.20                       | -1,938.45                                 | -1,323.34       | 545.74                       | 458.90                        | 86.84                           | 6.285                |                              |
| 14,800.00                                           | 12,806.21                   | 14,497.23                   | 12,640.21                   | 47.95               | 47.05            | 73.16                       | -2,038.45                                 | -1,323.21       | 544.94                       | 455.35                        | 89.60                           | 6.082                |                              |
| 14,900.00                                           | 12,806.28                   | 14,597.23                   | 12,640.16                   | 49.37               | 48.49            | 73.12                       | -2,138.44                                 | -1,323.08       | 544.15                       | 451.74                        | 92.41                           | 5.889                |                              |
| 15,000.00                                           | 12,806.35                   | 14,697.22                   | 12,640.10                   | 50.82               | 49.95            | 73.08                       | -2,238.44                                 | -1,322.95       | 543.36                       | 448.10                        | 95.26                           | 5.704                |                              |
| 15,100.00                                           | 12,806.42                   | 14,797.22                   | 12,640.05                   | 52.29               | 51.44            | 73.04                       | -2,338.43                                 | -1,322.82       | 542.56                       | 444.41                        | 98.15                           | 5.528                |                              |
| 15,200.00                                           | 12,806.49                   | 14,897.22                   | 12,640.00                   | 53.78               | 52.95            | 73.00                       | -2,438.43                                 | -1,322.69       | 541.77                       | 440.69                        | 101.08                          | 5.360                |                              |
| 15,300.00                                           | 12,806.57                   | 14,997.21                   | 12,639.95                   | 55.29               | 54.48            | 72.96                       | -2,538.43                                 | -1,322.56       | 540.98                       | 436.93                        | 104.05                          | 5.199                |                              |
| 15,400.00                                           | 12,806.64                   | 15,097.21                   | 12,639.90                   | 56.82               | 56.03            | 72.92                       | -2,638.42                                 | -1,322.42       | 540.18                       | 433.14                        | 107.04                          | 5.046                |                              |
| 15,500.00                                           | 12,806.71                   | 15,197.20                   | 12,639.84                   | 58.37               | 57.59            | 72.88                       | -2,738.42                                 | -1,322.29       | 539.39                       | 429.32                        | 110.07                          | 4.901                |                              |
| 15,600.00                                           | 12,806.78                   | 15,297.20                   | 12,639.79                   | 59.93               | 59.17            | 72.84                       | -2,838.41                                 | -1,322.16       | 538.60                       | 425.48                        | 113.12                          | 4.761                |                              |
| 15,700.00                                           | 12,806.86                   | 15,397.20                   | 12,639.74                   | 61.51               | 60.76            | 72.80                       | -2,938.41                                 | -1,322.03       | 537.81                       | 421.62                        | 116.19                          | 4.629                |                              |
| 15,800.00                                           | 12,806.93                   | 15,497.19                   | 12,639.69                   | 63.10               | 62.36            | 72.76                       | -3,038.41                                 | -1,321.90       | 537.02                       | 417.73                        | 119.29                          | 4.502                |                              |
| 15,900.00                                           | 12,807.00                   | 15,597.19                   | 12,639.63                   | 64.70               | 63.98            | 72.72                       | -3,138.40                                 | -1,321.77       | 536.23                       | 413.82                        | 122.40                          | 4.381                |                              |
| 16,000.00                                           | 12,807.07                   | 15,697.18                   | 12,639.58                   | 66.31               | 65.60            | 72.68                       | -3,238.40                                 | -1,321.64       | 535.44                       | 409.90                        | 125.54                          | 4.265                |                              |
| 16,100.00                                           | 12,807.14                   | 15,797.18                   | 12,639.53                   | 67.93               | 67.24            | 72.64                       | -3,338.39                                 | -1,321.51       | 534.64                       | 405.96                        | 128.69                          | 4.155                |                              |
| 16,200.00                                           | 12,807.22                   | 15,897.18                   | 12,639.48                   | 69.57               | 68.88            | 72.60                       | -3,438.39                                 | -1,321.37       | 533.85                       | 402.00                        | 131.85                          | 4.049                |                              |
| 16,300.00                                           | 12,807.29                   | 15,997.17                   | 12,639.42                   | 71.21               | 70.54            | 72.56                       | -3,538.39                                 | -1,321.24       | 533.06                       | 398.03                        | 135.03                          | 3.948                |                              |
| 16,400.00                                           | 12,807.36                   | 16,097.17                   | 12,639.37                   | 72.86               | 72.20            | 72.52                       | -3,638.38                                 | -1,321.11       | 532.27                       | 394.05                        | 138.22                          | 3.851                |                              |
| 16,500.00                                           | 12,807.43                   | 16,197.17                   | 12,639.32                   | 74.52               | 73.87            | 72.48                       | -3,738.38                                 | -1,320.98       | 531.48                       | 390.06                        | 141.43                          | 3.758                |                              |
| 16,600.00                                           | 12,807.50                   | 16,297.16                   | 12,639.27                   | 76.19               | 75.55            | 72.44                       | -3,838.37                                 | -1,320.85       | 530.70                       | 386.05                        | 144.65                          | 3.669                |                              |
| 16,700.00                                           | 12,807.58                   | 16,397.16                   | 12,639.21                   | 77.86               | 77.23            | 72.40                       | -3,938.37                                 | -1,320.72       | 529.91                       | 382.03                        | 147.87                          | 3.584                |                              |
| 16,800.00                                           | 12,807.65                   | 16,497.15                   | 12,639.16                   | 79.54               | 78.92            | 72.35                       | -4,038.37                                 | -1,320.59       | 529.12                       | 378.01                        | 151.11                          | 3.502                |                              |
| 16,900.00                                           | 12,807.72                   | 16,597.15                   | 12,639.11                   | 81.22               | 80.62            | 72.31                       | -4,138.36                                 | -1,320.46       | 528.33                       | 373.97                        | 154.36                          | 3.423                |                              |
| 17,000.00                                           | 12,807.79                   | 16,697.15                   | 12,639.06                   | 82.91               | 82.32            | 72.27                       | -4,238.36                                 | -1,320.32       | 527.54                       | 369.93                        | 157.61                          | 3.347                |                              |
| 17,100.00                                           | 12,807.87                   | 16,797.14                   | 12,639.00                   | 84.61               | 84.02            | 72.23                       | -4,338.36                                 | -1,320.19       | 526.75                       | 365.88                        | 160.87                          | 3.274                |                              |
| 17,200.00                                           | 12,807.94                   | 16,897.14                   | 12,638.95                   | 86.31               | 85.73            | 72.19                       | -4,438.35                                 | -1,320.06       | 525.97                       | 361.83                        | 164.14                          | 3.204                |                              |
| 17,300.00                                           | 12,808.01                   | 16,997.13                   | 12,638.90                   | 88.02               | 87.45            | 72.15                       | -4,538.35                                 | -1,319.93       | 525.18                       | 357.76                        | 167.42                          | 3.137                |                              |
| 17,400.00                                           | 12,808.08                   | 17,097.13                   | 12,638.85                   | 89.73               | 89.17            | 72.10                       | -4,638.34                                 | -1,319.80       | 524.39                       | 353.70                        | 170.70                          | 3.072                |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Seawolf 1-12 Fed - 84H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|---------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-LEAM MWD-ADJ        |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                             |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                 | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 17,500.00                             | 12,808.15             | 17,197.13             | 12,638.80             | 91.45            | 90.89         | 72.06                 | -4,738.34                           | -1,319.67    | 523.60                 | 349.62                  | 173.98                    | 3.010             |                    |           |
| 17,600.00                             | 12,808.23             | 17,297.12             | 12,638.74             | 93.16            | 92.62         | 72.02                 | -4,838.34                           | -1,319.54    | 522.82                 | 345.54                  | 177.28                    | 2.949             |                    |           |
| 17,700.00                             | 12,808.30             | 17,397.12             | 12,638.69             | 94.89            | 94.35         | 71.98                 | -4,938.33                           | -1,319.41    | 522.03                 | 341.46                  | 180.57                    | 2.891             |                    |           |
| 17,800.00                             | 12,808.37             | 17,497.12             | 12,638.64             | 96.61            | 96.09         | 71.93                 | -5,038.33                           | -1,319.28    | 521.25                 | 337.37                  | 183.87                    | 2.835             |                    |           |
| 17,900.00                             | 12,808.44             | 17,597.11             | 12,638.59             | 98.34            | 97.82         | 71.89                 | -5,138.32                           | -1,319.14    | 520.46                 | 333.28                  | 187.18                    | 2.781             |                    |           |
| 18,000.00                             | 12,808.51             | 17,697.11             | 12,638.53             | 100.08           | 99.56         | 71.85                 | -5,238.32                           | -1,319.01    | 519.68                 | 329.19                  | 190.49                    | 2.728             |                    |           |
| 18,100.00                             | 12,808.59             | 17,797.10             | 12,638.48             | 101.81           | 101.31        | 71.81                 | -5,338.32                           | -1,318.88    | 518.89                 | 325.09                  | 193.80                    | 2.677             |                    |           |
| 18,200.00                             | 12,808.66             | 17,897.10             | 12,638.43             | 103.55           | 103.05        | 71.76                 | -5,438.31                           | -1,318.75    | 518.11                 | 320.99                  | 197.12                    | 2.628             |                    |           |
| 18,300.00                             | 12,808.73             | 17,997.10             | 12,638.38             | 105.29           | 104.80        | 71.72                 | -5,538.31                           | -1,318.62    | 517.32                 | 316.88                  | 200.44                    | 2.581             |                    |           |
| 18,400.00                             | 12,808.80             | 18,097.09             | 12,638.32             | 107.04           | 106.55        | 71.68                 | -5,638.30                           | -1,318.49    | 516.54                 | 312.78                  | 203.76                    | 2.535             |                    |           |
| 18,500.00                             | 12,808.87             | 18,197.09             | 12,638.27             | 108.78           | 108.31        | 71.63                 | -5,738.30                           | -1,318.36    | 515.75                 | 308.67                  | 207.09                    | 2.491             |                    |           |
| 18,600.00                             | 12,808.95             | 18,297.09             | 12,638.22             | 110.53           | 110.06        | 71.59                 | -5,838.30                           | -1,318.23    | 514.97                 | 304.56                  | 210.41                    | 2.447             |                    |           |
| 18,700.00                             | 12,809.02             | 18,397.08             | 12,638.17             | 112.28           | 111.82        | 71.55                 | -5,938.29                           | -1,318.09    | 514.19                 | 300.44                  | 213.74                    | 2.406             |                    |           |
| 18,800.00                             | 12,809.09             | 18,497.08             | 12,638.11             | 114.04           | 113.58        | 71.50                 | -6,038.29                           | -1,317.96    | 513.40                 | 296.33                  | 217.07                    | 2.365             |                    |           |
| 18,900.00                             | 12,809.16             | 18,597.07             | 12,638.06             | 115.79           | 115.34        | 71.46                 | -6,138.28                           | -1,317.83    | 512.62                 | 292.21                  | 220.41                    | 2.326             |                    |           |
| 19,000.00                             | 12,809.24             | 18,697.07             | 12,638.01             | 117.55           | 117.11        | 71.41                 | -6,238.28                           | -1,317.70    | 511.84                 | 288.10                  | 223.74                    | 2.288             |                    |           |
| 19,100.00                             | 12,809.31             | 18,797.07             | 12,637.96             | 119.31           | 118.87        | 71.37                 | -6,338.28                           | -1,317.57    | 511.06                 | 283.98                  | 227.08                    | 2.251             |                    |           |
| 19,200.00                             | 12,809.38             | 18,897.06             | 12,637.90             | 121.07           | 120.64        | 71.33                 | -6,438.27                           | -1,317.44    | 510.27                 | 279.86                  | 230.41                    | 2.215             |                    |           |
| 19,300.00                             | 12,809.45             | 18,997.06             | 12,637.85             | 122.84           | 122.41        | 71.28                 | -6,538.27                           | -1,317.31    | 509.49                 | 275.74                  | 233.75                    | 2.180             |                    |           |
| 19,400.00                             | 12,809.52             | 19,097.05             | 12,637.80             | 124.60           | 124.18        | 71.24                 | -6,638.26                           | -1,317.18    | 508.71                 | 271.62                  | 237.09                    | 2.146             |                    |           |
| 19,500.00                             | 12,809.60             | 19,197.05             | 12,637.75             | 126.37           | 125.95        | 71.19                 | -6,738.26                           | -1,317.05    | 507.93                 | 267.50                  | 240.43                    | 2.113             |                    |           |
| 19,600.00                             | 12,809.67             | 19,297.05             | 12,637.70             | 128.13           | 127.73        | 71.15                 | -6,838.26                           | -1,316.91    | 507.15                 | 263.38                  | 243.77                    | 2.080             |                    |           |
| 19,700.00                             | 12,809.74             | 19,397.04             | 12,637.64             | 129.90           | 129.50        | 71.10                 | -6,938.25                           | -1,316.78    | 506.37                 | 259.26                  | 247.12                    | 2.049             |                    |           |
| 19,800.00                             | 12,809.81             | 19,497.04             | 12,637.59             | 131.67           | 131.28        | 71.06                 | -7,038.25                           | -1,316.65    | 505.59                 | 255.13                  | 250.46                    | 2.019             |                    |           |
| 19,900.00                             | 12,809.88             | 19,597.04             | 12,637.54             | 133.45           | 133.05        | 71.01                 | -7,138.25                           | -1,316.52    | 504.81                 | 251.01                  | 253.80                    | 1.989             |                    |           |
| 20,000.00                             | 12,809.96             | 19,697.03             | 12,637.49             | 135.22           | 134.83        | 70.97                 | -7,238.24                           | -1,316.39    | 504.03                 | 246.89                  | 257.14                    | 1.960             |                    |           |
| 20,100.00                             | 12,810.03             | 19,797.03             | 12,637.43             | 136.99           | 136.61        | 70.92                 | -7,338.24                           | -1,316.26    | 503.25                 | 242.77                  | 260.49                    | 1.932             |                    |           |
| 20,200.00                             | 12,810.10             | 19,897.02             | 12,637.38             | 138.77           | 138.39        | 70.87                 | -7,438.23                           | -1,316.13    | 502.47                 | 238.65                  | 263.83                    | 1.905             |                    |           |
| 20,300.00                             | 12,810.17             | 19,997.02             | 12,637.33             | 140.55           | 140.18        | 70.83                 | -7,538.23                           | -1,316.00    | 501.70                 | 234.52                  | 267.17                    | 1.878             |                    |           |
| 20,400.00                             | 12,810.25             | 20,097.02             | 12,637.28             | 142.32           | 141.96        | 70.78                 | -7,638.23                           | -1,315.86    | 500.92                 | 230.40                  | 270.52                    | 1.852             |                    |           |
| 20,500.00                             | 12,810.32             | 20,197.01             | 12,637.22             | 144.10           | 143.74        | 70.74                 | -7,738.22                           | -1,315.73    | 500.14                 | 226.28                  | 273.86                    | 1.826             |                    |           |
| 20,600.00                             | 12,810.39             | 20,297.01             | 12,637.17             | 145.88           | 145.53        | 70.69                 | -7,838.22                           | -1,315.60    | 499.36                 | 222.16                  | 277.20                    | 1.801             |                    |           |
| 20,700.00                             | 12,810.46             | 20,397.00             | 12,637.12             | 147.66           | 147.31        | 70.64                 | -7,938.21                           | -1,315.47    | 498.59                 | 218.04                  | 280.54                    | 1.777             |                    |           |
| 20,800.00                             | 12,810.53             | 20,497.00             | 12,637.07             | 149.45           | 149.10        | 70.60                 | -8,038.21                           | -1,315.34    | 497.81                 | 213.92                  | 283.88                    | 1.754             |                    |           |
| 20,900.00                             | 12,810.61             | 20,597.00             | 12,637.01             | 151.23           | 150.89        | 70.55                 | -8,138.21                           | -1,315.21    | 497.03                 | 209.81                  | 287.23                    | 1.730             |                    |           |
| 21,000.00                             | 12,810.68             | 20,696.99             | 12,636.96             | 153.01           | 152.68        | 70.50                 | -8,238.20                           | -1,315.08    | 496.26                 | 205.69                  | 290.57                    | 1.708             |                    |           |
| 21,100.00                             | 12,810.75             | 20,796.99             | 12,636.91             | 154.80           | 154.47        | 70.46                 | -8,338.20                           | -1,314.95    | 495.48                 | 201.57                  | 293.91                    | 1.686             |                    |           |
| 21,200.00                             | 12,810.82             | 20,896.99             | 12,636.86             | 156.58           | 156.26        | 70.41                 | -8,438.19                           | -1,314.82    | 494.71                 | 197.46                  | 297.25                    | 1.664             |                    |           |
| 21,300.00                             | 12,810.89             | 20,996.98             | 12,636.80             | 158.37           | 158.05        | 70.36                 | -8,538.19                           | -1,314.68    | 493.93                 | 193.35                  | 300.59                    | 1.643             |                    |           |
| 21,400.00                             | 12,810.97             | 21,096.98             | 12,636.75             | 160.16           | 159.84        | 70.31                 | -8,638.19                           | -1,314.55    | 493.16                 | 189.23                  | 303.92                    | 1.623             |                    |           |
| 21,500.00                             | 12,811.04             | 21,196.97             | 12,636.70             | 161.94           | 161.63        | 70.27                 | -8,738.18                           | -1,314.42    | 492.38                 | 185.12                  | 307.26                    | 1.602             |                    |           |
| 21,600.00                             | 12,811.11             | 21,296.97             | 12,636.65             | 163.73           | 163.42        | 70.22                 | -8,838.18                           | -1,314.29    | 491.61                 | 181.01                  | 310.60                    | 1.583             |                    |           |
| 21,700.00                             | 12,811.18             | 21,396.97             | 12,636.59             | 165.52           | 165.22        | 70.17                 | -8,938.17                           | -1,314.16    | 490.83                 | 176.90                  | 313.93                    | 1.563             |                    |           |
| 21,800.00                             | 12,811.26             | 21,496.96             | 12,636.54             | 167.31           | 167.01        | 70.12                 | -9,038.17                           | -1,314.03    | 490.06                 | 172.79                  | 317.27                    | 1.545             |                    |           |
| 21,900.00                             | 12,811.33             | 21,596.96             | 12,636.49             | 169.10           | 168.81        | 70.07                 | -9,138.17                           | -1,313.90    | 489.29                 | 168.69                  | 320.60                    | 1.526             |                    |           |
| 22,000.00                             | 12,811.40             | 21,696.95             | 12,636.44             | 170.89           | 170.60        | 70.03                 | -9,238.16                           | -1,313.77    | 488.52                 | 164.58                  | 323.93                    | 1.508             |                    |           |
| 22,100.00                             | 12,811.47             | 21,796.95             | 12,636.39             | 172.68           | 172.40        | 69.98                 | -9,338.16                           | -1,313.63    | 487.74                 | 160.48                  | 327.26                    | 1.490 Level 3     |                    |           |
| 22,200.00                             | 12,811.54             | 21,896.95             | 12,636.33             | 174.48           | 174.19        | 69.93                 | -9,438.15                           | -1,313.50    | 486.97                 | 156.38                  | 330.59                    | 1.473 Level 3     |                    |           |
| 22,300.00                             | 12,811.62             | 21,996.94             | 12,636.28             | 176.27           | 175.99        | 69.88                 | -9,538.15                           | -1,313.37    | 486.20                 | 152.28                  | 333.92                    | 1.456 Level 3     |                    |           |
| 22,400.00                             | 12,811.69             | 22,096.94             | 12,636.23             | 178.06           | 177.79        | 69.83                 | -9,638.15                           | -1,313.24    | 485.43                 | 148.18                  | 337.25                    | 1.439 Level 3     |                    |           |
| 22,500.00                             | 12,811.76             | 22,196.94             | 12,636.18             | 179.86           | 179.59        | 69.78                 | -9,738.14                           | -1,313.11    | 484.66                 | 144.08                  | 340.58                    | 1.423 Level 3     |                    |           |
| 22,600.00                             | 12,811.83             | 22,296.93             | 12,636.12             | 181.65           | 181.38        | 69.73                 | -9,838.14                           | -1,312.98    | 483.89                 | 139.99                  | 343.90                    | 1.407 Level 3     |                    |           |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 84H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                              |
| 22,700.00                                           | 12,811.90                   | 22,396.93                   | 12,636.07                   | 183.45              | 183.18           | 69.68                       | -9,938.13              | -1,312.85       | 483.12                       | 135.89                        | 347.22                          | 1.391                | Level 3                      |
| 22,800.00                                           | 12,811.98                   | 22,496.92                   | 12,636.02                   | 185.24              | 184.98           | 69.63                       | -10,038.13             | -1,312.72       | 482.35                       | 131.80                        | 350.55                          | 1.376                | Level 3                      |
| 22,833.77                                           | 12,812.00                   | 22,530.69                   | 12,636.00                   | 185.86              | 185.59           | 69.62                       | -10,071.89             | -1,312.67       | 482.09                       | 130.42                        | 351.66                          | 1.371                | Level 3, CC, ES, SF          |

# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
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Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 85H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 0.00                                                | 0.00                        | 0.00                        | 0.00                        | 0.00                | 0.00             | 179.54                      | -29.94                                    | 0.24            | 29.95                        |                               |                                 |                      |                              |
| 100.00                                              | 100.00                      | 99.30                       | 99.30                       | 0.09                | 0.09             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 29.77                         | 0.17                            | 174.741              |                              |
| 200.00                                              | 200.00                      | 199.30                      | 199.30                      | 0.31                | 0.31             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 29.32                         | 0.62                            | 48.299               |                              |
| 300.00                                              | 300.00                      | 299.30                      | 299.30                      | 0.54                | 0.53             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 28.87                         | 1.07                            | 27.997               |                              |
| 400.00                                              | 400.00                      | 399.30                      | 399.30                      | 0.76                | 0.76             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 28.42                         | 1.52                            | 19.711               |                              |
| 500.00                                              | 500.00                      | 499.30                      | 499.30                      | 0.99                | 0.98             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 27.97                         | 1.97                            | 15.210               |                              |
| 600.00                                              | 600.00                      | 599.30                      | 599.30                      | 1.21                | 1.21             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 27.52                         | 2.42                            | 12.382               |                              |
| 700.00                                              | 700.00                      | 699.30                      | 699.30                      | 1.43                | 1.43             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 27.07                         | 2.87                            | 10.441               |                              |
| 800.00                                              | 800.00                      | 799.30                      | 799.30                      | 1.66                | 1.66             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 26.62                         | 3.32                            | 9.026                |                              |
| 900.00                                              | 900.00                      | 899.30                      | 899.30                      | 1.88                | 1.88             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 26.17                         | 3.77                            | 7.949                |                              |
| 1,000.00                                            | 1,000.00                    | 999.30                      | 999.30                      | 2.11                | 2.11             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 25.72                         | 4.22                            | 7.101                |                              |
| 1,100.00                                            | 1,100.00                    | 1,099.30                    | 1,099.30                    | 2.33                | 2.33             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 25.28                         | 4.67                            | 6.417                |                              |
| 1,200.00                                            | 1,200.00                    | 1,199.30                    | 1,199.30                    | 2.56                | 2.56             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 24.83                         | 5.12                            | 5.853                |                              |
| 1,300.00                                            | 1,300.00                    | 1,299.30                    | 1,299.30                    | 2.78                | 2.78             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 24.38                         | 5.56                            | 5.380                |                              |
| 1,400.00                                            | 1,400.00                    | 1,399.30                    | 1,399.30                    | 3.01                | 3.01             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 23.93                         | 6.01                            | 4.978                |                              |
| 1,500.00                                            | 1,500.00                    | 1,499.30                    | 1,499.30                    | 3.23                | 3.23             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 23.48                         | 6.46                            | 4.632                |                              |
| 1,600.00                                            | 1,600.00                    | 1,599.30                    | 1,599.30                    | 3.46                | 3.46             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 23.03                         | 6.91                            | 4.331                |                              |
| 1,700.00                                            | 1,700.00                    | 1,699.30                    | 1,699.30                    | 3.68                | 3.68             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 22.58                         | 7.36                            | 4.066                |                              |
| 1,800.00                                            | 1,800.00                    | 1,799.30                    | 1,799.30                    | 3.91                | 3.91             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 22.13                         | 7.81                            | 3.832                |                              |
| 1,900.00                                            | 1,900.00                    | 1,899.30                    | 1,899.30                    | 4.13                | 4.13             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 21.68                         | 8.26                            | 3.624                |                              |
| 2,000.00                                            | 2,000.00                    | 1,999.30                    | 1,999.30                    | 4.36                | 4.35             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 21.23                         | 8.71                            | 3.437                |                              |
| 2,100.00                                            | 2,100.00                    | 2,099.30                    | 2,099.30                    | 4.58                | 4.58             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 20.78                         | 9.16                            | 3.268                |                              |
| 2,200.00                                            | 2,200.00                    | 2,199.30                    | 2,199.30                    | 4.81                | 4.80             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 20.33                         | 9.61                            | 3.115                |                              |
| 2,300.00                                            | 2,300.00                    | 2,299.30                    | 2,299.30                    | 5.03                | 5.03             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 19.88                         | 10.06                           | 2.976                |                              |
| 2,400.00                                            | 2,400.00                    | 2,399.30                    | 2,399.30                    | 5.26                | 5.25             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 19.43                         | 10.51                           | 2.849                |                              |
| 2,500.00                                            | 2,500.00                    | 2,499.30                    | 2,499.30                    | 5.48                | 5.48             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 18.98                         | 10.96                           | 2.732                |                              |
| 2,600.00                                            | 2,600.00                    | 2,599.30                    | 2,599.30                    | 5.71                | 5.70             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 18.53                         | 11.41                           | 2.624                |                              |
| 2,700.00                                            | 2,700.00                    | 2,699.30                    | 2,699.30                    | 5.93                | 5.93             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 18.08                         | 11.86                           | 2.525                |                              |
| 2,800.00                                            | 2,800.00                    | 2,799.30                    | 2,799.30                    | 6.15                | 6.15             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 17.63                         | 12.31                           | 2.433                |                              |
| 2,900.00                                            | 2,900.00                    | 2,899.30                    | 2,899.30                    | 6.38                | 6.38             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 17.18                         | 12.76                           | 2.347                |                              |
| 3,000.00                                            | 3,000.00                    | 2,999.30                    | 2,999.30                    | 6.60                | 6.60             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 16.73                         | 13.21                           | 2.267                |                              |
| 3,100.00                                            | 3,100.00                    | 3,099.30                    | 3,099.30                    | 6.83                | 6.83             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 16.28                         | 13.66                           | 2.192                |                              |
| 3,200.00                                            | 3,200.00                    | 3,199.30                    | 3,199.30                    | 7.05                | 7.05             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 15.84                         | 14.11                           | 2.123                |                              |
| 3,300.00                                            | 3,300.00                    | 3,299.30                    | 3,299.30                    | 7.28                | 7.28             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 15.39                         | 14.56                           | 2.057                |                              |
| 3,400.00                                            | 3,400.00                    | 3,399.30                    | 3,399.30                    | 7.50                | 7.50             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 14.94                         | 15.00                           | 1.995                |                              |
| 3,500.00                                            | 3,500.00                    | 3,499.30                    | 3,499.30                    | 7.73                | 7.73             | 179.54                      | -29.94                                    | 0.24            | 29.94                        | 14.49                         | 15.45                           | 1.937 CC             |                              |
| 3,600.00                                            | 3,600.00                    | 3,599.30                    | 3,599.30                    | 7.94                | 7.95             | -100.10                     | -29.94                                    | 0.24            | 30.08                        | 14.19                         | 15.89                           | 1.893 ES             |                              |
| 3,700.00                                            | 3,699.96                    | 3,699.26                    | 3,699.26                    | 8.14                | 8.18             | -104.92                     | -29.94                                    | 0.24            | 30.65                        | 14.33                         | 16.32                           | 1.878                |                              |
| 3,800.00                                            | 3,799.86                    | 3,799.16                    | 3,799.16                    | 8.35                | 8.40             | -112.46                     | -29.94                                    | 0.24            | 32.05                        | 15.31                         | 16.74                           | 1.914                |                              |
| 3,900.00                                            | 3,899.68                    | 3,898.98                    | 3,898.98                    | 8.56                | 8.62             | -121.74                     | -29.94                                    | 0.24            | 34.85                        | 17.68                         | 17.17                           | 2.030                |                              |
| 4,000.00                                            | 3,999.37                    | 3,998.67                    | 3,998.67                    | 8.77                | 8.85             | -131.40                     | -29.94                                    | 0.24            | 39.55                        | 21.96                         | 17.58                           | 2.249                |                              |
| 4,100.00                                            | 4,098.90                    | 4,098.20                    | 4,098.20                    | 8.98                | 9.07             | -140.24                     | -29.94                                    | 0.24            | 46.46                        | 28.47                         | 17.99                           | 2.582                |                              |
| 4,200.00                                            | 4,198.26                    | 4,197.56                    | 4,197.56                    | 9.21                | 9.30             | -147.65                     | -29.94                                    | 0.24            | 55.65                        | 37.26                         | 18.39                           | 3.027                |                              |
| 4,300.00                                            | 4,297.40                    | 4,296.70                    | 4,296.70                    | 9.44                | 9.52             | -153.57                     | -29.94                                    | 0.24            | 67.06                        | 48.28                         | 18.78                           | 3.572                |                              |
| 4,400.00                                            | 4,396.43                    | 4,395.73                    | 4,395.73                    | 9.68                | 9.74             | -158.02                     | -29.94                                    | 0.24            | 79.78                        | 60.58                         | 19.20                           | 4.156                |                              |
| 4,500.00                                            | 4,495.46                    | 4,494.76                    | 4,494.76                    | 9.93                | 9.96             | -161.23                     | -29.94                                    | 0.24            | 92.85                        | 73.22                         | 19.63                           | 4.731                |                              |
| 4,600.00                                            | 4,594.48                    | 4,593.78                    | 4,593.78                    | 10.18               | 10.19            | -163.65                     | -29.94                                    | 0.24            | 106.13                       | 86.08                         | 20.06                           | 5.292                |                              |
| 4,700.00                                            | 4,693.51                    | 4,692.81                    | 4,692.81                    | 10.43               | 10.41            | -165.52                     | -29.94                                    | 0.24            | 119.56                       | 99.07                         | 20.49                           | 5.835                |                              |
| 4,800.00                                            | 4,792.54                    | 4,791.84                    | 4,791.84                    | 10.69               | 10.63            | -167.02                     | -29.94                                    | 0.24            | 133.09                       | 112.16                        | 20.92                           | 6.360                |                              |
| 4,900.00                                            | 4,891.56                    | 4,890.86                    | 4,890.86                    | 10.96               | 10.85            | -168.24                     | -29.94                                    | 0.24            | 146.69                       | 125.33                        | 21.36                           | 6.867                |                              |
| 5,000.00                                            | 4,990.59                    | 4,989.89                    | 4,989.89                    | 11.22               | 11.08            | -169.25                     | -29.94                                    | 0.24            | 160.34                       | 138.54                        | 21.80                           | 7.355                |                              |
| 5,100.00                                            | 5,089.62                    | 5,088.92                    | 5,088.92                    | 11.50               | 11.30            | -170.11                     | -29.94                                    | 0.24            | 174.04                       | 151.80                        | 22.24                           | 7.826                |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

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 Reference Site: Seawolf 1-12 Fed  
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 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 85H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      |         | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                              |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |         |                              |
| 5,200.00                                            | 5,188.64                    | 5,187.94                    | 5,187.94                    | 11.77               | 11.52            | -170.84                     | -29.94                                    | 0.24            | 187.77                       | 165.09                        | 22.68                           | 8.279                |         |                              |
| 5,300.00                                            | 5,287.67                    | 5,286.97                    | 5,286.97                    | 12.05               | 11.74            | -171.47                     | -29.94                                    | 0.24            | 201.53                       | 178.40                        | 23.12                           | 8.715                |         |                              |
| 5,400.00                                            | 5,386.70                    | 5,386.00                    | 5,386.00                    | 12.33               | 11.97            | -172.02                     | -29.94                                    | 0.24            | 215.30                       | 191.73                        | 23.57                           | 9.136                |         |                              |
| 5,500.00                                            | 5,485.72                    | 5,485.02                    | 5,485.02                    | 12.62               | 12.19            | -172.50                     | -29.94                                    | 0.24            | 229.09                       | 205.08                        | 24.01                           | 9.541                |         |                              |
| 5,600.00                                            | 5,584.75                    | 5,585.81                    | 5,585.81                    | 12.91               | 12.40            | -172.92                     | -29.94                                    | -0.08           | 242.60                       | 218.15                        | 24.45                           | 9.923                |         |                              |
| 5,700.00                                            | 5,683.78                    | 5,687.12                    | 5,687.11                    | 13.20               | 12.61            | -173.24                     | -29.94                                    | -1.29           | 255.27                       | 230.40                        | 24.87                           | 10.263               |         |                              |
| 5,800.00                                            | 5,782.81                    | 5,788.65                    | 5,788.62                    | 13.49               | 12.81            | -173.48                     | -29.94                                    | -3.40           | 267.11                       | 241.81                        | 25.30                           | 10.558               |         |                              |
| 5,900.00                                            | 5,881.83                    | 5,890.39                    | 5,890.31                    | 13.78               | 13.01            | -173.66                     | -29.94                                    | -6.41           | 278.09                       | 252.36                        | 25.73                           | 10.809               |         |                              |
| 6,000.00                                            | 5,980.86                    | 5,992.31                    | 5,992.16                    | 14.08               | 13.21            | -173.78                     | -29.94                                    | -10.33          | 288.22                       | 262.06                        | 26.16                           | 11.019               |         |                              |
| 6,100.00                                            | 6,079.89                    | 6,094.41                    | 6,094.14                    | 14.38               | 13.42            | -173.85                     | -29.94                                    | -15.17          | 297.49                       | 270.90                        | 26.59                           | 11.188               |         |                              |
| 6,200.00                                            | 6,178.91                    | 6,196.67                    | 6,196.24                    | 14.67               | 13.63            | -173.87                     | -29.94                                    | -20.93          | 305.90                       | 278.88                        | 27.02                           | 11.319               |         |                              |
| 6,300.00                                            | 6,277.94                    | 6,299.07                    | 6,298.42                    | 14.98               | 13.84            | -173.85                     | -29.94                                    | -27.61          | 313.45                       | 285.99                        | 27.46                           | 11.414               |         |                              |
| 6,400.00                                            | 6,376.97                    | 6,401.59                    | 6,400.66                    | 15.28               | 14.06            | -173.79                     | -29.94                                    | -35.21          | 320.13                       | 292.23                        | 27.90                           | 11.473               |         |                              |
| 6,500.00                                            | 6,475.99                    | 6,504.11                    | 6,502.82                    | 15.58               | 14.28            | -173.70                     | -29.94                                    | -43.72          | 325.95                       | 297.60                        | 28.34                           | 11.500               |         |                              |
| 6,600.00                                            | 6,575.02                    | 6,603.96                    | 6,602.30                    | 15.89               | 14.49            | -173.59                     | -29.94                                    | -52.43          | 331.37                       | 302.58                        | 28.78                           | 11.513               |         |                              |
| 6,700.00                                            | 6,674.05                    | 6,703.81                    | 6,701.77                    | 16.20               | 14.71            | -173.49                     | -29.94                                    | -61.13          | 336.79                       | 307.56                        | 29.22                           | 11.525               |         |                              |
| 6,800.00                                            | 6,773.07                    | 6,803.66                    | 6,801.24                    | 16.50               | 14.93            | -173.38                     | -29.94                                    | -69.83          | 342.21                       | 312.54                        | 29.66                           | 11.537               |         |                              |
| 6,900.00                                            | 6,872.10                    | 6,903.51                    | 6,900.71                    | 16.81               | 15.15            | -173.29                     | -29.94                                    | -78.53          | 347.63                       | 317.52                        | 30.11                           | 11.547               |         |                              |
| 7,000.00                                            | 6,971.13                    | 7,003.37                    | 7,000.18                    | 17.12               | 15.37            | -173.19                     | -29.94                                    | -87.24          | 353.05                       | 322.50                        | 30.55                           | 11.557               |         |                              |
| 7,100.00                                            | 7,070.15                    | 7,103.22                    | 7,099.65                    | 17.44               | 15.59            | -173.10                     | -29.94                                    | -95.94          | 358.48                       | 327.48                        | 31.00                           | 11.566               |         |                              |
| 7,200.00                                            | 7,169.18                    | 7,203.07                    | 7,199.12                    | 17.75               | 15.82            | -173.01                     | -29.94                                    | -104.64         | 363.90                       | 332.46                        | 31.44                           | 11.574               |         |                              |
| 7,300.00                                            | 7,268.21                    | 7,302.92                    | 7,298.59                    | 18.06               | 16.05            | -172.92                     | -29.94                                    | -113.34         | 369.33                       | 337.44                        | 31.89                           | 11.581               |         |                              |
| 7,400.00                                            | 7,367.23                    | 7,402.77                    | 7,398.07                    | 18.38               | 16.28            | -172.84                     | -29.94                                    | -122.05         | 374.76                       | 342.42                        | 32.34                           | 11.588               |         |                              |
| 7,500.00                                            | 7,466.26                    | 7,502.62                    | 7,497.54                    | 18.69               | 16.51            | -172.76                     | -29.94                                    | -130.75         | 380.18                       | 347.40                        | 32.79                           | 11.595               |         |                              |
| 7,600.00                                            | 7,565.29                    | 7,602.47                    | 7,597.01                    | 19.01               | 16.74            | -172.68                     | -29.94                                    | -139.45         | 385.61                       | 352.37                        | 33.24                           | 11.601               |         |                              |
| 7,700.00                                            | 7,664.31                    | 7,702.32                    | 7,696.48                    | 19.32               | 16.97            | -172.60                     | -29.94                                    | -148.15         | 391.04                       | 357.35                        | 33.69                           | 11.606               |         |                              |
| 7,800.00                                            | 7,763.34                    | 7,802.17                    | 7,795.95                    | 19.64               | 17.20            | -172.53                     | -29.94                                    | -156.86         | 396.47                       | 362.33                        | 34.15                           | 11.611               |         |                              |
| 7,900.00                                            | 7,862.37                    | 7,902.03                    | 7,895.42                    | 19.96               | 17.44            | -172.46                     | -29.94                                    | -165.56         | 401.90                       | 367.30                        | 34.60                           | 11.615               |         |                              |
| 8,000.00                                            | 7,961.40                    | 8,001.88                    | 7,994.89                    | 20.28               | 17.68            | -172.38                     | -29.94                                    | -174.26         | 407.33                       | 372.28                        | 35.06                           | 11.619               |         |                              |
| 8,100.00                                            | 8,060.42                    | 8,101.73                    | 8,094.36                    | 20.60               | 17.91            | -172.32                     | -29.94                                    | -182.96         | 412.77                       | 377.25                        | 35.51                           | 11.623               |         |                              |
| 8,200.00                                            | 8,159.45                    | 8,201.58                    | 8,193.84                    | 20.92               | 18.15            | -172.25                     | -29.94                                    | -191.67         | 418.20                       | 382.23                        | 35.97                           | 11.626               |         |                              |
| 8,300.00                                            | 8,258.48                    | 8,301.43                    | 8,293.31                    | 21.24               | 18.39            | -172.18                     | -29.94                                    | -200.37         | 423.63                       | 387.20                        | 36.43                           | 11.629               |         |                              |
| 8,400.00                                            | 8,357.50                    | 8,401.28                    | 8,392.78                    | 21.56               | 18.63            | -172.12                     | -29.94                                    | -209.07         | 429.07                       | 392.18                        | 36.89                           | 11.632               |         |                              |
| 8,500.00                                            | 8,456.53                    | 8,501.13                    | 8,492.25                    | 21.88               | 18.87            | -172.06                     | -29.94                                    | -217.77         | 434.50                       | 397.15                        | 37.35                           | 11.634               |         |                              |
| 8,600.00                                            | 8,555.56                    | 8,600.98                    | 8,591.72                    | 22.20               | 19.11            | -172.00                     | -29.94                                    | -226.48         | 439.93                       | 402.13                        | 37.81                           | 11.637               |         |                              |
| 8,700.00                                            | 8,654.58                    | 8,700.83                    | 8,691.19                    | 22.53               | 19.36            | -171.94                     | -29.94                                    | -235.18         | 445.37                       | 407.10                        | 38.27                           | 11.638               |         |                              |
| 8,800.00                                            | 8,753.61                    | 8,800.69                    | 8,790.66                    | 22.85               | 19.60            | -171.88                     | -29.94                                    | -243.88         | 450.81                       | 412.08                        | 38.73                           | 11.640               |         |                              |
| 8,900.00                                            | 8,852.70                    | 8,900.56                    | 8,890.16                    | 23.14               | 19.85            | -171.82                     | -29.94                                    | -252.59         | 455.81                       | 416.62                        | 39.19                           | 11.630               |         |                              |
| 9,000.00                                            | 8,951.90                    | 9,000.47                    | 8,989.69                    | 23.39               | 20.09            | -171.74                     | -29.94                                    | -261.29         | 459.95                       | 420.32                        | 39.63                           | 11.605               |         |                              |
| 9,100.00                                            | 9,051.20                    | 9,100.41                    | 9,089.25                    | 23.63               | 20.34            | -171.65                     | -29.94                                    | -270.00         | 463.23                       | 423.16                        | 40.07                           | 11.559               |         |                              |
| 9,200.00                                            | 9,150.61                    | 9,200.38                    | 9,188.84                    | 23.87               | 20.58            | -171.55                     | -29.94                                    | -278.72         | 465.65                       | 425.14                        | 40.51                           | 11.494               |         |                              |
| 9,300.00                                            | 9,250.10                    | 9,300.36                    | 9,288.44                    | 24.10               | 20.83            | -171.43                     | -29.94                                    | -287.43         | 467.21                       | 426.26                        | 40.95                           | 11.410               |         |                              |
| 9,400.00                                            | 9,349.68                    | 9,400.35                    | 9,388.05                    | 24.33               | 21.08            | -171.29                     | -29.94                                    | -296.15         | 467.91                       | 426.53                        | 41.38                           | 11.307               |         |                              |
| 9,500.00                                            | 9,449.34                    | 9,500.35                    | 9,487.66                    | 24.55               | 21.33            | -171.14                     | -29.94                                    | -304.86         | 467.74                       | 425.93                        | 41.81                           | 11.187               |         |                              |
| 9,600.00                                            | 9,549.07                    | 9,600.33                    | 9,587.26                    | 24.76               | 21.58            | -170.96                     | -29.94                                    | -313.57         | 466.72                       | 424.48                        | 42.24                           | 11.049               |         |                              |
| 9,700.00                                            | 9,648.85                    | 9,700.30                    | 9,686.85                    | 24.97               | 21.83            | -170.77                     | -29.94                                    | -322.29         | 464.85                       | 422.18                        | 42.67                           | 10.894               |         |                              |
| 9,800.00                                            | 9,748.69                    | 9,800.25                    | 9,786.42                    | 25.17               | 22.08            | -170.57                     | -29.94                                    | -331.00         | 462.11                       | 419.02                        | 43.09                           | 10.724               |         |                              |
| 9,900.00                                            | 9,848.57                    | 9,900.17                    | 9,885.96                    | 25.36               | 22.33            | -170.33                     | -29.94                                    | -339.71         | 458.52                       | 415.01                        | 43.52                           | 10.537               |         |                              |
| 10,000.00                                           | 9,948.50                    | 10,000.05                   | 9,985.46                    | 25.55               | 22.58            | -170.08                     | -29.94                                    | -348.41         | 454.09                       | 410.15                        | 43.94                           | 10.335               |         |                              |
| 10,100.00                                           | 10,048.45                   | 10,099.89                   | 10,084.92                   | 25.74               | 22.84            | -169.80                     | -29.94                                    | -357.11         | 448.80                       | 404.44                        | 44.36                           | 10.118               |         |                              |
| 10,200.00                                           | 10,148.43                   | 10,199.67                   | 10,184.32                   | 25.91               | 23.09            | -169.49                     | -29.94                                    | -365.81         | 442.66                       | 397.89                        | 44.77                           | 9.887                |         |                              |
| 10,300.00                                           | 10,248.42                   | 10,299.39                   | 10,283.67                   | 26.08               | 23.34            | -169.15                     | -29.94                                    | -374.50         | 435.69                       | 390.50                        | 45.19                           | 9.641                |         |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
Project: Lea County, NM (NAD-83)  
Reference Site: Seawolf 1-12 Fed  
Site Error: 0.00 usft  
Reference Well: 94H  
Well Error: 0.00 usft  
Reference Wellbore: OH  
Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
TVD Reference: 3325.4' GE @ 3348.90usft  
MD Reference: 3325.4' GE @ 3348.90usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at 2.00 sigma  
Database: EDM 5000.1 Single User Db  
Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 85H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 10,400.00                                           | 10,348.42                   | 10,399.05                   | 10,382.94                   | 26.25               | 23.60            | 109.22                      | -29.94                                    | -383.19         | 427.87                       | 382.28                        | 45.59                           | 9.385                |                              |
| 10,500.00                                           | 10,448.42                   | 10,498.67                   | 10,482.18                   | 26.42               | 23.85            | 109.61                      | -29.94                                    | -391.87         | 419.65                       | 373.62                        | 46.03                           | 9.118                |                              |
| 10,600.00                                           | 10,548.42                   | 10,595.08                   | 10,578.26                   | 26.60               | 24.07            | 109.99                      | -29.94                                    | -399.88         | 411.83                       | 365.38                        | 46.45                           | 8.866                |                              |
| 10,700.00                                           | 10,648.42                   | 10,691.57                   | 10,674.48                   | 26.79               | 24.27            | 110.34                      | -29.94                                    | -407.08         | 404.82                       | 357.95                        | 46.86                           | 8.638                |                              |
| 10,800.00                                           | 10,748.42                   | 10,788.18                   | 10,770.88                   | 26.98               | 24.47            | 110.66                      | -29.94                                    | -413.49         | 398.60                       | 351.33                        | 47.27                           | 8.432                |                              |
| 10,900.00                                           | 10,848.42                   | 10,884.88                   | 10,867.42                   | 27.16               | 24.67            | 110.95                      | -29.94                                    | -419.08         | 393.19                       | 345.51                        | 47.68                           | 8.247                |                              |
| 11,000.00                                           | 10,948.42                   | 10,981.68                   | 10,964.10                   | 27.35               | 24.86            | 111.20                      | -29.94                                    | -423.87         | 388.58                       | 340.49                        | 48.09                           | 8.081                |                              |
| 11,100.00                                           | 11,048.42                   | 11,078.55                   | 11,060.89                   | 27.54               | 25.05            | 111.41                      | -29.94                                    | -427.84         | 384.76                       | 336.27                        | 48.49                           | 7.935                |                              |
| 11,200.00                                           | 11,148.42                   | 11,175.48                   | 11,157.77                   | 27.73               | 25.24            | 111.58                      | -29.94                                    | -431.00         | 381.73                       | 332.84                        | 48.89                           | 7.807                |                              |
| 11,300.00                                           | 11,248.42                   | 11,272.46                   | 11,254.72                   | 27.92               | 25.43            | 111.71                      | -29.94                                    | -433.33         | 379.49                       | 330.20                        | 49.29                           | 7.698                |                              |
| 11,400.00                                           | 11,348.42                   | 11,369.47                   | 11,351.71                   | 28.11               | 25.61            | 111.80                      | -29.94                                    | -434.85         | 378.04                       | 328.35                        | 49.69                           | 7.608                |                              |
| 11,500.00                                           | 11,448.42                   | 11,466.50                   | 11,448.74                   | 28.30               | 25.79            | 111.84                      | -29.94                                    | -435.54         | 377.38                       | 327.29                        | 50.09                           | 7.534                |                              |
| 11,550.91                                           | 11,499.33                   | 11,516.38                   | 11,498.63                   | 28.39               | 25.88            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 327.04                        | 50.29                           | 7.503                |                              |
| 11,600.00                                           | 11,548.42                   | 11,565.47                   | 11,547.72                   | 28.49               | 25.98            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 326.84                        | 50.49                           | 7.473                |                              |
| 11,700.00                                           | 11,648.42                   | 11,665.47                   | 11,647.72                   | 28.68               | 26.18            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 326.42                        | 50.91                           | 7.411                |                              |
| 11,800.00                                           | 11,748.42                   | 11,765.47                   | 11,747.72                   | 28.87               | 26.39            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 325.99                        | 51.34                           | 7.349                |                              |
| 11,900.00                                           | 11,848.42                   | 11,865.47                   | 11,847.72                   | 29.06               | 26.60            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 325.56                        | 51.77                           | 7.289                |                              |
| 12,000.00                                           | 11,948.42                   | 11,965.47                   | 11,947.72                   | 29.25               | 26.81            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 325.14                        | 52.20                           | 7.229                |                              |
| 12,100.00                                           | 12,048.42                   | 12,065.47                   | 12,047.72                   | 29.45               | 27.02            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 324.71                        | 52.62                           | 7.170                |                              |
| 12,200.00                                           | 12,148.42                   | 12,165.47                   | 12,147.72                   | 29.64               | 27.23            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 324.28                        | 53.05                           | 7.113                |                              |
| 12,243.46                                           | 12,191.87                   | 12,208.93                   | 12,191.17                   | 29.73               | 27.32            | 111.84                      | -29.94                                    | -435.59         | 377.33                       | 324.09                        | 53.24                           | 7.088                |                              |
| 12,300.00                                           | 12,248.42                   | 12,256.02                   | 12,238.24                   | 29.83               | 27.42            | 111.99                      | -30.99                                    | -435.59         | 377.85                       | 324.38                        | 53.46                           | 7.068                |                              |
| 12,400.00                                           | 12,348.41                   | 12,331.47                   | 12,312.82                   | 30.03               | 27.56            | -66.79                      | -41.92                                    | -435.56         | 383.39                       | 329.50                        | 53.89                           | 7.114                |                              |
| 12,500.00                                           | 12,447.13                   | 12,404.93                   | 12,382.89                   | 30.18               | 27.69            | -64.56                      | -63.70                                    | -435.50         | 390.01                       | 335.90                        | 54.11                           | 7.208                |                              |
| 12,600.00                                           | 12,540.62                   | 12,475.00                   | 12,445.88                   | 30.31               | 27.82            | -63.18                      | -94.26                                    | -435.42         | 394.68                       | 340.64                        | 54.03                           | 7.304                |                              |
| 12,700.00                                           | 12,624.80                   | 12,550.00                   | 12,507.56                   | 30.43               | 27.96            | -62.59                      | -136.79                                   | -435.30         | 396.93                       | 343.17                        | 53.76                           | 7.383                |                              |
| 12,800.00                                           | 12,695.99                   | 12,625.00                   | 12,561.83                   | 30.56               | 28.11            | -62.86                      | -188.44                                   | -435.17         | 396.64                       | 343.19                        | 53.45                           | 7.421                |                              |
| 12,900.00                                           | 12,751.07                   | 12,694.03                   | 12,604.08                   | 30.70               | 28.27            | -63.91                      | -242.96                                   | -435.02         | 393.81                       | 340.53                        | 53.29                           | 7.390                |                              |
| 13,000.00                                           | 12,787.65                   | 12,767.16                   | 12,639.77                   | 30.89               | 28.47            | -65.80                      | -306.70                                   | -434.85         | 388.83                       | 335.34                        | 53.48                           | 7.270                |                              |
| 13,100.00                                           | 12,804.11                   | 12,841.49                   | 12,665.65                   | 31.17               | 28.72            | -68.51                      | -376.30                                   | -434.66         | 382.23                       | 328.13                        | 54.10                           | 7.065                |                              |
| 13,200.00                                           | 12,805.05                   | 12,918.28                   | 12,680.72                   | 31.54               | 29.04            | -70.82                      | -451.51                                   | -434.46         | 376.54                       | 321.44                        | 55.10                           | 6.834                |                              |
| 13,252.34                                           | 12,805.09                   | 12,959.83                   | 12,683.79                   | 31.78               | 29.24            | -71.28                      | -492.93                                   | -434.35         | 375.79                       | 320.18                        | 55.62                           | 6.757                |                              |
| 13,300.00                                           | 12,805.12                   | 13,003.58                   | 12,683.94                   | 32.02               | 29.47            | -71.32                      | -536.68                                   | -434.24         | 376.19                       | 320.12                        | 56.07                           | 6.710                |                              |
| 13,400.00                                           | 12,805.20                   | 13,103.57                   | 12,683.74                   | 32.60               | 30.06            | -71.33                      | -636.68                                   | -433.97         | 377.23                       | 320.02                        | 57.21                           | 6.594                |                              |
| 13,500.00                                           | 12,805.27                   | 13,203.57                   | 12,683.53                   | 33.27               | 30.75            | -71.34                      | -736.67                                   | -433.70         | 378.27                       | 319.74                        | 58.53                           | 6.463                |                              |
| 13,600.00                                           | 12,805.34                   | 13,303.56                   | 12,683.32                   | 34.03               | 31.54            | -71.35                      | -836.66                                   | -433.44         | 379.31                       | 319.28                        | 60.03                           | 6.319                |                              |
| 13,700.00                                           | 12,805.41                   | 13,403.56                   | 12,683.11                   | 34.88               | 32.40            | -71.35                      | -936.66                                   | -433.17         | 380.35                       | 318.66                        | 61.69                           | 6.166                |                              |
| 13,800.00                                           | 12,805.48                   | 13,503.55                   | 12,682.90                   | 35.79               | 33.35            | -71.36                      | -1,036.65                                 | -432.90         | 381.39                       | 317.89                        | 63.50                           | 6.006                |                              |
| 13,900.00                                           | 12,805.56                   | 13,603.54                   | 12,682.69                   | 36.78               | 34.36            | -71.37                      | -1,136.65                                 | -432.63         | 382.43                       | 316.99                        | 65.44                           | 5.844                |                              |
| 14,000.00                                           | 12,805.63                   | 13,703.54                   | 12,682.48                   | 37.83               | 35.44            | -71.38                      | -1,236.64                                 | -432.37         | 383.47                       | 315.96                        | 67.51                           | 5.680                |                              |
| 14,100.00                                           | 12,805.70                   | 13,803.53                   | 12,682.27                   | 38.94               | 36.58            | -71.39                      | -1,336.63                                 | -432.10         | 384.51                       | 314.82                        | 69.69                           | 5.517                |                              |
| 14,200.00                                           | 12,805.77                   | 13,903.53                   | 12,682.06                   | 40.10               | 37.78            | -71.39                      | -1,436.63                                 | -431.83         | 385.55                       | 313.57                        | 71.97                           | 5.357                |                              |
| 14,300.00                                           | 12,805.85                   | 14,003.52                   | 12,681.85                   | 41.31               | 39.02            | -71.40                      | -1,536.62                                 | -431.57         | 386.59                       | 312.24                        | 74.35                           | 5.199                |                              |
| 14,400.00                                           | 12,805.92                   | 14,103.52                   | 12,681.64                   | 42.57               | 40.30            | -71.41                      | -1,636.62                                 | -431.30         | 387.63                       | 310.81                        | 76.82                           | 5.046                |                              |
| 14,500.00                                           | 12,805.99                   | 14,203.51                   | 12,681.43                   | 43.86               | 41.63            | -71.42                      | -1,736.61                                 | -431.03         | 388.67                       | 309.31                        | 79.36                           | 4.898                |                              |
| 14,600.00                                           | 12,806.06                   | 14,303.51                   | 12,681.22                   | 45.19               | 42.99            | -71.42                      | -1,836.60                                 | -430.76         | 389.71                       | 307.74                        | 81.97                           | 4.755                |                              |
| 14,700.00                                           | 12,806.13                   | 14,403.50                   | 12,681.02                   | 46.55               | 44.39            | -71.43                      | -1,936.60                                 | -430.50         | 390.75                       | 306.11                        | 84.64                           | 4.617                |                              |
| 14,800.00                                           | 12,806.21                   | 14,503.50                   | 12,680.81                   | 47.95               | 45.81            | -71.44                      | -2,036.59                                 | -430.23         | 391.79                       | 304.42                        | 87.37                           | 4.484                |                              |
| 14,900.00                                           | 12,806.28                   | 14,603.49                   | 12,680.60                   | 49.37               | 47.27            | -71.45                      | -2,136.59                                 | -429.96         | 392.83                       | 302.68                        | 90.15                           | 4.357                |                              |
| 15,000.00                                           | 12,806.35                   | 14,703.48                   | 12,680.39                   | 50.82               | 48.74            | -71.46                      | -2,236.58                                 | -429.70         | 393.87                       | 300.89                        | 92.99                           | 4.236                |                              |
| 15,100.00                                           | 12,806.42                   | 14,803.48                   | 12,680.18                   | 52.29               | 50.24            | -71.46                      | -2,336.57                                 | -429.43         | 394.91                       | 299.05                        | 95.86                           | 4.120                |                              |
| 15,200.00                                           | 12,806.49                   | 14,903.47                   | 12,679.97                   | 53.78               | 51.77            | -71.47                      | -2,436.57                                 | -429.16         | 395.95                       | 297.18                        | 98.78                           | 4.009                |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design      Seawolf 1-12 Fed - 85H - OH - Plan #1 |                          |                          |                          |                     |                  |                            |                                           |                 |                              |                               |                                 |                      | Offset Site Error: | 0.00 usft |
|----------------------------------------------------------|--------------------------|--------------------------|--------------------------|---------------------|------------------|----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|--------------------|-----------|
| Survey Program:    0-LEAM MWD-ADJ                        |                          |                          |                          |                     |                  |                            |                                           |                 |                              |                               |                                 |                      | Offset Well Error: | 0.00 usft |
| Reference                                                |                          | Offset                   |                          | Semi Major Axis     |                  |                            | Distance                                  |                 |                              |                               |                                 |                      | Warning            |           |
| Measured Depth<br>(usft)                                 | Vertical Depth<br>(usft) | Measured Depth<br>(usft) | Vertical Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) | Highside<br>Tooface<br>(") | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor |                    |           |
| 15,300.00                                                | 12,806.57                | 15,003.47                | 12,679.76                | 55.29               | 53.31            | -71.48                     | -2,536.56                                 | -428.89         | 396.99                       | 295.27                        | 101.73                          | 3.903                |                    |           |
| 15,400.00                                                | 12,806.64                | 15,103.46                | 12,679.55                | 56.82               | 54.86            | -71.49                     | -2,636.56                                 | -428.63         | 398.03                       | 293.32                        | 104.71                          | 3.801                |                    |           |
| 15,500.00                                                | 12,806.71                | 15,203.46                | 12,679.34                | 58.37               | 56.44            | -71.49                     | -2,736.55                                 | -428.36         | 399.07                       | 291.35                        | 107.73                          | 3.705                |                    |           |
| 15,600.00                                                | 12,806.78                | 15,303.45                | 12,679.13                | 59.93               | 58.03            | -71.50                     | -2,836.54                                 | -428.09         | 400.12                       | 289.35                        | 110.77                          | 3.612                |                    |           |
| 15,700.00                                                | 12,806.86                | 15,403.45                | 12,678.92                | 61.51               | 59.63            | -71.51                     | -2,936.54                                 | -427.83         | 401.16                       | 287.32                        | 113.84                          | 3.524                |                    |           |
| 15,800.00                                                | 12,806.93                | 15,503.44                | 12,678.71                | 63.10               | 61.24            | -71.52                     | -3,036.53                                 | -427.56         | 402.20                       | 285.26                        | 116.93                          | 3.440                |                    |           |
| 15,900.00                                                | 12,807.00                | 15,603.44                | 12,678.50                | 64.70               | 62.87            | -71.52                     | -3,136.53                                 | -427.29         | 403.24                       | 283.19                        | 120.05                          | 3.359                |                    |           |
| 16,000.00                                                | 12,807.07                | 15,703.43                | 12,678.30                | 66.31               | 64.50            | -71.53                     | -3,236.52                                 | -427.03         | 404.28                       | 281.09                        | 123.18                          | 3.282                |                    |           |
| 16,100.00                                                | 12,807.14                | 15,803.43                | 12,678.09                | 67.93               | 66.15            | -71.54                     | -3,336.51                                 | -426.76         | 405.32                       | 278.98                        | 126.34                          | 3.208                |                    |           |
| 16,200.00                                                | 12,807.22                | 15,903.42                | 12,677.88                | 69.57               | 67.80            | -71.54                     | -3,436.51                                 | -426.49         | 406.36                       | 276.85                        | 129.51                          | 3.138                |                    |           |
| 16,300.00                                                | 12,807.29                | 16,003.41                | 12,677.67                | 71.21               | 69.46            | -71.55                     | -3,536.50                                 | -426.22         | 407.40                       | 274.70                        | 132.70                          | 3.070                |                    |           |
| 16,400.00                                                | 12,807.36                | 16,103.41                | 12,677.46                | 72.86               | 71.14            | -71.56                     | -3,636.50                                 | -425.96         | 408.44                       | 272.54                        | 135.90                          | 3.005                |                    |           |
| 16,500.00                                                | 12,807.43                | 16,203.40                | 12,677.25                | 74.52               | 72.81            | -71.57                     | -3,736.49                                 | -425.69         | 409.48                       | 270.36                        | 139.12                          | 2.943                |                    |           |
| 16,600.00                                                | 12,807.50                | 16,303.40                | 12,677.04                | 76.19               | 74.50            | -71.57                     | -3,836.48                                 | -425.42         | 410.52                       | 268.17                        | 142.35                          | 2.884                |                    |           |
| 16,700.00                                                | 12,807.58                | 16,403.39                | 12,676.83                | 77.86               | 76.19            | -71.58                     | -3,936.48                                 | -425.16         | 411.56                       | 265.97                        | 145.59                          | 2.827                |                    |           |
| 16,800.00                                                | 12,807.65                | 16,503.39                | 12,676.62                | 79.54               | 77.89            | -71.59                     | -4,036.47                                 | -424.89         | 412.60                       | 263.76                        | 148.84                          | 2.772                |                    |           |
| 16,900.00                                                | 12,807.72                | 16,603.38                | 12,676.41                | 81.22               | 79.59            | -71.59                     | -4,136.47                                 | -424.62         | 413.64                       | 261.53                        | 152.11                          | 2.719                |                    |           |
| 17,000.00                                                | 12,807.79                | 16,703.38                | 12,676.20                | 82.91               | 81.30            | -71.60                     | -4,236.46                                 | -424.35         | 414.68                       | 259.30                        | 155.38                          | 2.669                |                    |           |
| 17,100.00                                                | 12,807.87                | 16,803.37                | 12,675.99                | 84.61               | 83.01            | -71.61                     | -4,336.45                                 | -424.09         | 415.72                       | 257.05                        | 158.67                          | 2.620                |                    |           |
| 17,200.00                                                | 12,807.94                | 16,903.37                | 12,675.78                | 86.31               | 84.73            | -71.61                     | -4,436.45                                 | -423.82         | 416.76                       | 254.80                        | 161.96                          | 2.573                |                    |           |
| 17,300.00                                                | 12,808.01                | 17,003.36                | 12,675.57                | 88.02               | 86.45            | -71.62                     | -4,536.44                                 | -423.55         | 417.80                       | 252.54                        | 165.26                          | 2.528                |                    |           |
| 17,400.00                                                | 12,808.08                | 17,103.35                | 12,675.37                | 89.73               | 88.18            | -71.63                     | -4,636.44                                 | -423.29         | 418.84                       | 250.27                        | 168.57                          | 2.485                |                    |           |
| 17,500.00                                                | 12,808.15                | 17,203.35                | 12,675.16                | 91.45               | 89.91            | -71.63                     | -4,736.43                                 | -423.02         | 419.88                       | 247.99                        | 171.89                          | 2.443                |                    |           |
| 17,600.00                                                | 12,808.23                | 17,303.34                | 12,674.95                | 93.16               | 91.64            | -71.64                     | -4,836.42                                 | -422.75         | 420.93                       | 245.71                        | 175.21                          | 2.402                |                    |           |
| 17,700.00                                                | 12,808.30                | 17,403.34                | 12,674.74                | 94.89               | 93.38            | -71.65                     | -4,936.42                                 | -422.49         | 421.97                       | 243.42                        | 178.55                          | 2.363                |                    |           |
| 17,800.00                                                | 12,808.37                | 17,503.33                | 12,674.53                | 96.61               | 95.12            | -71.65                     | -5,036.41                                 | -422.22         | 423.01                       | 241.12                        | 181.88                          | 2.326                |                    |           |
| 17,900.00                                                | 12,808.44                | 17,603.33                | 12,674.32                | 98.34               | 96.86            | -71.66                     | -5,136.41                                 | -421.95         | 424.05                       | 238.82                        | 185.23                          | 2.289                |                    |           |
| 18,000.00                                                | 12,808.51                | 17,703.32                | 12,674.11                | 100.08              | 98.61            | -71.67                     | -5,236.40                                 | -421.68         | 425.09                       | 236.51                        | 188.58                          | 2.254                |                    |           |
| 18,100.00                                                | 12,808.59                | 17,803.32                | 12,673.90                | 101.81              | 100.36           | -71.67                     | -5,336.39                                 | -421.42         | 426.13                       | 234.20                        | 191.93                          | 2.220                |                    |           |
| 18,200.00                                                | 12,808.66                | 17,903.31                | 12,673.69                | 103.55              | 102.11           | -71.68                     | -5,436.39                                 | -421.15         | 427.17                       | 231.88                        | 195.29                          | 2.187                |                    |           |
| 18,300.00                                                | 12,808.73                | 18,003.31                | 12,673.48                | 105.29              | 103.86           | -71.69                     | -5,536.38                                 | -420.88         | 428.21                       | 229.56                        | 198.65                          | 2.156                |                    |           |
| 18,400.00                                                | 12,808.80                | 18,103.30                | 12,673.27                | 107.04              | 105.62           | -71.69                     | -5,636.38                                 | -420.62         | 429.25                       | 227.23                        | 202.02                          | 2.125                |                    |           |
| 18,500.00                                                | 12,808.87                | 18,203.29                | 12,673.06                | 108.78              | 107.37           | -71.70                     | -5,736.37                                 | -420.35         | 430.29                       | 224.89                        | 205.40                          | 2.095                |                    |           |
| 18,600.00                                                | 12,808.95                | 18,303.29                | 12,672.85                | 110.53              | 109.14           | -71.71                     | -5,836.36                                 | -420.08         | 431.33                       | 222.56                        | 208.77                          | 2.066                |                    |           |
| 18,700.00                                                | 12,809.02                | 18,403.28                | 12,672.65                | 112.28              | 110.90           | -71.71                     | -5,936.36                                 | -419.81         | 432.37                       | 220.22                        | 212.16                          | 2.038                |                    |           |
| 18,800.00                                                | 12,809.09                | 18,503.28                | 12,672.44                | 114.04              | 112.66           | -71.72                     | -6,036.35                                 | -419.55         | 433.41                       | 217.87                        | 215.54                          | 2.011                |                    |           |
| 18,900.00                                                | 12,809.16                | 18,603.27                | 12,672.23                | 115.79              | 114.43           | -71.72                     | -6,136.35                                 | -419.28         | 434.45                       | 215.52                        | 218.93                          | 1.984                |                    |           |
| 19,000.00                                                | 12,809.24                | 18,703.27                | 12,672.02                | 117.55              | 116.20           | -71.73                     | -6,236.34                                 | -419.01         | 435.49                       | 213.17                        | 222.32                          | 1.959                |                    |           |
| 19,100.00                                                | 12,809.31                | 18,803.26                | 12,671.81                | 119.31              | 117.97           | -71.74                     | -6,336.33                                 | -418.75         | 436.53                       | 210.81                        | 225.72                          | 1.934                |                    |           |
| 19,200.00                                                | 12,809.38                | 18,903.26                | 12,671.60                | 121.07              | 119.74           | -71.74                     | -6,436.33                                 | -418.48         | 437.58                       | 208.46                        | 229.12                          | 1.910                |                    |           |
| 19,300.00                                                | 12,809.45                | 19,003.25                | 12,671.39                | 122.84              | 121.51           | -71.75                     | -6,536.32                                 | -418.21         | 438.62                       | 206.09                        | 232.52                          | 1.886                |                    |           |
| 19,400.00                                                | 12,809.52                | 19,103.25                | 12,671.18                | 124.60              | 123.28           | -71.76                     | -6,636.32                                 | -417.94         | 439.66                       | 203.73                        | 235.93                          | 1.864                |                    |           |
| 19,500.00                                                | 12,809.60                | 19,203.24                | 12,670.97                | 126.37              | 125.06           | -71.76                     | -6,736.31                                 | -417.68         | 440.70                       | 201.36                        | 239.33                          | 1.841                |                    |           |
| 19,600.00                                                | 12,809.67                | 19,303.24                | 12,670.76                | 128.13              | 126.84           | -71.77                     | -6,836.30                                 | -417.41         | 441.74                       | 198.99                        | 242.75                          | 1.820                |                    |           |
| 19,700.00                                                | 12,809.74                | 19,403.23                | 12,670.55                | 129.90              | 128.62           | -71.77                     | -6,936.30                                 | -417.14         | 442.78                       | 196.62                        | 246.16                          | 1.799                |                    |           |
| 19,800.00                                                | 12,809.81                | 19,503.22                | 12,670.34                | 131.67              | 130.39           | -71.78                     | -7,036.29                                 | -416.88         | 443.82                       | 194.24                        | 249.58                          | 1.778                |                    |           |
| 19,900.00                                                | 12,809.88                | 19,603.22                | 12,670.13                | 133.45              | 132.18           | -71.79                     | -7,136.29                                 | -416.61         | 444.86                       | 191.87                        | 252.99                          | 1.758                |                    |           |
| 20,000.00                                                | 12,809.96                | 19,703.21                | 12,669.93                | 135.22              | 133.96           | -71.79                     | -7,236.28                                 | -416.34         | 445.90                       | 189.49                        | 256.41                          | 1.739                |                    |           |
| 20,100.00                                                | 12,810.03                | 19,803.21                | 12,669.72                | 136.99              | 135.74           | -71.80                     | -7,336.27                                 | -416.08         | 446.94                       | 187.10                        | 259.84                          | 1.720                |                    |           |
| 20,200.00                                                | 12,810.10                | 19,903.20                | 12,669.51                | 138.77              | 137.52           | -71.80                     | -7,436.27                                 | -415.81         | 447.98                       | 184.72                        | 263.26                          | 1.702                |                    |           |
| 20,300.00                                                | 12,810.17                | 20,003.20                | 12,669.30                | 140.55              | 139.31           | -71.81                     | -7,536.26                                 | -415.54         | 449.02                       | 182.33                        | 266.69                          | 1.684                |                    |           |
| 20,400.00                                                | 12,810.25                | 20,103.19                | 12,669.09                | 142.32              | 141.10           | -71.81                     | -7,636.26                                 | -415.27         | 450.06                       | 179.94                        | 270.12                          | 1.666                |                    |           |

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

# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 85H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 20,500.00                                           | 12,810.32                   | 20,203.19                   | 12,668.88                   | 144.10              | 142.88           | -71.82                      | -7,736.25                                 | -415.01         | 451.10                       | 177.55                        | 273.55                          | 1.649                |                              |
| 20,600.00                                           | 12,810.39                   | 20,303.18                   | 12,668.67                   | 145.88              | 144.67           | -71.83                      | -7,836.24                                 | -414.74         | 452.14                       | 175.16                        | 276.98                          | 1.632                |                              |
| 20,700.00                                           | 12,810.46                   | 20,403.18                   | 12,668.46                   | 147.66              | 146.46           | -71.83                      | -7,936.24                                 | -414.47         | 453.19                       | 172.77                        | 280.42                          | 1.616                |                              |
| 20,800.00                                           | 12,810.53                   | 20,503.17                   | 12,668.25                   | 149.45              | 148.25           | -71.84                      | -8,036.23                                 | -414.21         | 454.23                       | 170.37                        | 283.85                          | 1.600                |                              |
| 20,900.00                                           | 12,810.61                   | 20,603.16                   | 12,668.04                   | 151.23              | 150.04           | -71.84                      | -8,136.23                                 | -413.94         | 455.27                       | 167.97                        | 287.29                          | 1.585                |                              |
| 21,000.00                                           | 12,810.68                   | 20,703.16                   | 12,667.83                   | 153.01              | 151.83           | -71.85                      | -8,236.22                                 | -413.67         | 456.31                       | 165.58                        | 290.73                          | 1.570                |                              |
| 21,100.00                                           | 12,810.75                   | 20,803.15                   | 12,667.62                   | 154.80              | 153.62           | -71.85                      | -8,336.21                                 | -413.40         | 457.35                       | 163.18                        | 294.17                          | 1.555                |                              |
| 21,200.00                                           | 12,810.82                   | 20,903.15                   | 12,667.41                   | 156.58              | 155.41           | -71.86                      | -8,436.21                                 | -413.14         | 458.39                       | 160.77                        | 297.62                          | 1.540                |                              |
| 21,300.00                                           | 12,810.89                   | 21,003.14                   | 12,667.20                   | 158.37              | 157.21           | -71.87                      | -8,536.20                                 | -412.87         | 459.43                       | 158.37                        | 301.06                          | 1.526                |                              |
| 21,400.00                                           | 12,810.97                   | 21,103.14                   | 12,667.00                   | 160.16              | 159.00           | -71.87                      | -8,636.20                                 | -412.60         | 460.47                       | 155.96                        | 304.51                          | 1.512                |                              |
| 21,500.00                                           | 12,811.04                   | 21,203.13                   | 12,666.79                   | 161.94              | 160.80           | -71.88                      | -8,736.19                                 | -412.34         | 461.51                       | 153.56                        | 307.95                          | 1.499 Level 3        |                              |
| 21,600.00                                           | 12,811.11                   | 21,303.13                   | 12,666.58                   | 163.73              | 162.59           | -71.88                      | -8,836.18                                 | -412.07         | 462.55                       | 151.15                        | 311.40                          | 1.485 Level 3        |                              |
| 21,700.00                                           | 12,811.18                   | 21,403.12                   | 12,666.37                   | 165.52              | 164.39           | -71.89                      | -8,936.18                                 | -411.80         | 463.59                       | 148.74                        | 314.85                          | 1.472 Level 3        |                              |
| 21,800.00                                           | 12,811.26                   | 21,503.12                   | 12,666.16                   | 167.31              | 166.18           | -71.89                      | -9,036.17                                 | -411.53         | 464.63                       | 146.33                        | 318.30                          | 1.460 Level 3        |                              |
| 21,900.00                                           | 12,811.33                   | 21,603.11                   | 12,665.95                   | 169.10              | 167.98           | -71.90                      | -9,136.17                                 | -411.27         | 465.67                       | 143.92                        | 321.76                          | 1.447 Level 3        |                              |
| 22,000.00                                           | 12,811.40                   | 21,703.11                   | 12,665.74                   | 170.89              | 169.78           | -71.90                      | -9,236.16                                 | -411.00         | 466.72                       | 141.51                        | 325.21                          | 1.435 Level 3        |                              |
| 22,100.00                                           | 12,811.47                   | 21,803.10                   | 12,665.53                   | 172.68              | 171.58           | -71.91                      | -9,336.15                                 | -410.73         | 467.76                       | 139.09                        | 328.66                          | 1.423 Level 3        |                              |
| 22,200.00                                           | 12,811.54                   | 21,903.09                   | 12,665.32                   | 174.48              | 173.37           | -71.92                      | -9,436.15                                 | -410.47         | 468.80                       | 136.68                        | 332.12                          | 1.412 Level 3        |                              |
| 22,300.00                                           | 12,811.62                   | 22,003.09                   | 12,665.11                   | 176.27              | 175.17           | -71.92                      | -9,536.14                                 | -410.20         | 469.84                       | 134.26                        | 335.58                          | 1.400 Level 3        |                              |
| 22,400.00                                           | 12,811.69                   | 22,103.08                   | 12,664.90                   | 178.06              | 176.97           | -71.93                      | -9,636.14                                 | -409.93         | 470.88                       | 131.84                        | 339.03                          | 1.389 Level 3        |                              |
| 22,500.00                                           | 12,811.76                   | 22,203.08                   | 12,664.69                   | 179.86              | 178.77           | -71.93                      | -9,736.13                                 | -409.67         | 471.92                       | 129.43                        | 342.49                          | 1.378 Level 3        |                              |
| 22,600.00                                           | 12,811.83                   | 22,303.07                   | 12,664.48                   | 181.65              | 180.57           | -71.94                      | -9,836.12                                 | -409.40         | 472.96                       | 127.01                        | 345.95                          | 1.367 Level 3        |                              |
| 22,700.00                                           | 12,811.90                   | 22,403.07                   | 12,664.28                   | 183.45              | 182.38           | -71.94                      | -9,936.12                                 | -409.13         | 474.00                       | 124.59                        | 349.41                          | 1.357 Level 3        |                              |
| 22,800.00                                           | 12,811.98                   | 22,503.06                   | 12,664.07                   | 185.24              | 184.18           | -71.95                      | -10,036.11                                | -408.86         | 475.04                       | 122.17                        | 352.88                          | 1.346 Level 3        |                              |
| 22,833.77                                           | 12,812.00                   | 22,534.57                   | 12,664.00                   | 185.86              | 184.74           | -71.95                      | -10,067.62                                | -408.78         | 475.40                       | 121.40                        | 354.00                          | 1.343 Level 3, SF    |                              |



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 86H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 |                      |         | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                                 |                      |         | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                              |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |         |                              |
| 0.00                                                | 0.00                        | 0.00                        | 0.00                        | 0.00                | 0.00             | 120.56                      | -29.65                 | 50.21           | 58.31                        |                               |                                 |                      |         |                              |
| 100.00                                              | 100.00                      | 99.50                       | 99.50                       | 0.09                | 0.09             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 58.14                         | 0.17                            | 339.973              |         |                              |
| 200.00                                              | 200.00                      | 199.50                      | 199.50                      | 0.31                | 0.31             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 57.69                         | 0.62                            | 93.996               |         |                              |
| 300.00                                              | 300.00                      | 299.50                      | 299.50                      | 0.54                | 0.53             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 57.24                         | 1.07                            | 54.502               |         |                              |
| 400.00                                              | 400.00                      | 399.50                      | 399.50                      | 0.76                | 0.76             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 56.79                         | 1.52                            | 38.377               |         |                              |
| 500.00                                              | 500.00                      | 499.50                      | 499.50                      | 0.99                | 0.98             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 56.34                         | 1.97                            | 29.615               |         |                              |
| 600.00                                              | 600.00                      | 599.50                      | 599.50                      | 1.21                | 1.21             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 55.89                         | 2.42                            | 24.111               |         |                              |
| 700.00                                              | 700.00                      | 699.50                      | 699.50                      | 1.43                | 1.43             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 55.44                         | 2.87                            | 20.331               |         |                              |
| 800.00                                              | 800.00                      | 799.50                      | 799.50                      | 1.66                | 1.66             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 54.99                         | 3.32                            | 17.577               |         |                              |
| 900.00                                              | 900.00                      | 899.50                      | 899.50                      | 1.88                | 1.88             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 54.54                         | 3.77                            | 15.479               |         |                              |
| 1,000.00                                            | 1,000.00                    | 999.50                      | 999.50                      | 2.11                | 2.11             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 54.09                         | 4.22                            | 13.829               |         |                              |
| 1,100.00                                            | 1,100.00                    | 1,099.50                    | 1,099.50                    | 2.33                | 2.33             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 53.64                         | 4.67                            | 12.497               |         |                              |
| 1,200.00                                            | 1,200.00                    | 1,199.50                    | 1,199.50                    | 2.56                | 2.56             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 53.20                         | 5.12                            | 11.398               |         |                              |
| 1,300.00                                            | 1,300.00                    | 1,299.50                    | 1,299.50                    | 2.78                | 2.78             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 52.75                         | 5.57                            | 10.478               |         |                              |
| 1,400.00                                            | 1,400.00                    | 1,399.50                    | 1,399.50                    | 3.01                | 3.01             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 52.30                         | 6.01                            | 9.695                |         |                              |
| 1,500.00                                            | 1,500.00                    | 1,499.50                    | 1,499.50                    | 3.23                | 3.23             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 51.85                         | 6.46                            | 9.020                |         |                              |
| 1,600.00                                            | 1,600.00                    | 1,599.50                    | 1,599.50                    | 3.46                | 3.46             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 51.40                         | 6.91                            | 8.434                |         |                              |
| 1,700.00                                            | 1,700.00                    | 1,699.50                    | 1,699.50                    | 3.68                | 3.68             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 50.95                         | 7.36                            | 7.919                |         |                              |
| 1,800.00                                            | 1,800.00                    | 1,799.50                    | 1,799.50                    | 3.91                | 3.91             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 50.50                         | 7.81                            | 7.463                |         |                              |
| 1,900.00                                            | 1,900.00                    | 1,899.50                    | 1,899.50                    | 4.13                | 4.13             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 50.05                         | 8.26                            | 7.057                |         |                              |
| 2,000.00                                            | 2,000.00                    | 1,999.50                    | 1,999.50                    | 4.36                | 4.36             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 49.60                         | 8.71                            | 6.693                |         |                              |
| 2,100.00                                            | 2,100.00                    | 2,099.50                    | 2,099.50                    | 4.58                | 4.58             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 49.15                         | 9.16                            | 6.365                |         |                              |
| 2,200.00                                            | 2,200.00                    | 2,199.50                    | 2,199.50                    | 4.81                | 4.80             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 48.70                         | 9.61                            | 6.067                |         |                              |
| 2,300.00                                            | 2,300.00                    | 2,299.50                    | 2,299.50                    | 5.03                | 5.03             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 48.25                         | 10.06                           | 5.796                |         |                              |
| 2,400.00                                            | 2,400.00                    | 2,399.50                    | 2,399.50                    | 5.26                | 5.25             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 47.80                         | 10.51                           | 5.548                |         |                              |
| 2,500.00                                            | 2,500.00                    | 2,499.50                    | 2,499.50                    | 5.48                | 5.48             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 47.35                         | 10.96                           | 5.321                |         |                              |
| 2,600.00                                            | 2,600.00                    | 2,599.50                    | 2,599.50                    | 5.71                | 5.70             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 46.90                         | 11.41                           | 5.111                |         |                              |
| 2,700.00                                            | 2,700.00                    | 2,699.50                    | 2,699.50                    | 5.93                | 5.93             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 46.45                         | 11.86                           | 4.917                |         |                              |
| 2,800.00                                            | 2,800.00                    | 2,799.50                    | 2,799.50                    | 6.15                | 6.15             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 46.00                         | 12.31                           | 4.738                |         |                              |
| 2,900.00                                            | 2,900.00                    | 2,899.50                    | 2,899.50                    | 6.38                | 6.38             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 45.55                         | 12.76                           | 4.571                |         |                              |
| 3,000.00                                            | 3,000.00                    | 2,999.50                    | 2,999.50                    | 6.60                | 6.60             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 45.10                         | 13.21                           | 4.415                |         |                              |
| 3,100.00                                            | 3,100.00                    | 3,099.50                    | 3,099.50                    | 6.83                | 6.83             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 44.65                         | 13.66                           | 4.270                |         |                              |
| 3,200.00                                            | 3,200.00                    | 3,199.50                    | 3,199.50                    | 7.05                | 7.05             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 44.20                         | 14.11                           | 4.134                |         |                              |
| 3,300.00                                            | 3,300.00                    | 3,299.50                    | 3,299.50                    | 7.28                | 7.28             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 43.76                         | 14.56                           | 4.006                |         |                              |
| 3,400.00                                            | 3,400.00                    | 3,399.50                    | 3,399.50                    | 7.50                | 7.50             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 43.31                         | 15.01                           | 3.886                |         |                              |
| 3,500.00                                            | 3,500.00                    | 3,499.50                    | 3,499.50                    | 7.73                | 7.73             | 120.56                      | -29.65                 | 50.21           | 58.31                        | 42.86                         | 15.45                           | 3.773 CC, ES         |         |                              |
| 3,600.00                                            | 3,600.00                    | 3,598.61                    | 3,598.60                    | 7.94                | 7.94             | -158.16                     | -29.65                 | 51.06           | 59.86                        | 43.99                         | 15.87                           | 3.771                |         |                              |
| 3,700.00                                            | 3,699.96                    | 3,697.53                    | 3,697.49                    | 8.14                | 8.13             | -160.13                     | -29.65                 | 53.61           | 64.57                        | 48.31                         | 16.26                           | 3.970                |         |                              |
| 3,800.00                                            | 3,799.86                    | 3,796.10                    | 3,795.97                    | 8.35                | 8.33             | -162.84                     | -29.65                 | 57.86           | 72.56                        | 55.91                         | 16.65                           | 4.358                |         |                              |
| 3,900.00                                            | 3,899.68                    | 3,894.14                    | 3,893.83                    | 8.56                | 8.53             | -165.75                     | -29.65                 | 63.76           | 83.94                        | 66.90                         | 17.03                           | 4.928                |         |                              |
| 4,000.00                                            | 3,999.37                    | 3,991.48                    | 3,990.88                    | 8.77                | 8.73             | -168.49                     | -29.65                 | 71.28           | 98.77                        | 81.36                         | 17.41                           | 5.673                |         |                              |
| 4,100.00                                            | 4,098.90                    | 4,089.68                    | 4,088.70                    | 8.98                | 8.94             | -170.82                     | -29.65                 | 79.83           | 116.42                       | 98.63                         | 17.79                           | 6.545                |         |                              |
| 4,200.00                                            | 4,198.26                    | 4,187.68                    | 4,186.33                    | 9.21                | 9.15             | -172.63                     | -29.65                 | 88.37           | 135.90                       | 117.75                        | 18.16                           | 7.485                |         |                              |
| 4,300.00                                            | 4,297.40                    | 4,285.32                    | 4,283.60                    | 9.44                | 9.37             | -174.05                     | -29.65                 | 96.88           | 157.19                       | 138.67                        | 18.52                           | 8.487                |         |                              |
| 4,400.00                                            | 4,396.43                    | 4,382.77                    | 4,380.67                    | 9.68                | 9.58             | -175.18                     | -29.65                 | 105.37          | 179.41                       | 160.48                        | 18.93                           | 9.478                |         |                              |
| 4,500.00                                            | 4,495.46                    | 4,480.21                    | 4,477.75                    | 9.93                | 9.80             | -176.06                     | -29.65                 | 113.87          | 201.67                       | 182.33                        | 19.34                           | 10.428               |         |                              |
| 4,600.00                                            | 4,594.48                    | 4,577.66                    | 4,574.83                    | 10.18               | 10.02            | -176.76                     | -29.65                 | 122.36          | 223.97                       | 204.22                        | 19.75                           | 11.340               |         |                              |
| 4,700.00                                            | 4,693.51                    | 4,675.11                    | 4,671.91                    | 10.43               | 10.24            | -177.34                     | -29.65                 | 130.85          | 246.29                       | 226.13                        | 20.16                           | 12.214               |         |                              |
| 4,800.00                                            | 4,792.54                    | 4,772.56                    | 4,768.99                    | 10.69               | 10.47            | -177.82                     | -29.65                 | 139.35          | 268.64                       | 248.06                        | 20.58                           | 13.052               |         |                              |
| 4,900.00                                            | 4,891.56                    | 4,870.01                    | 4,866.06                    | 10.96               | 10.70            | -178.22                     | -29.65                 | 147.84          | 291.00                       | 270.00                        | 21.00                           | 13.856               |         |                              |
| 5,000.00                                            | 4,990.59                    | 4,967.46                    | 4,963.14                    | 11.22               | 10.92            | -178.57                     | -29.65                 | 156.33          | 313.37                       | 291.95                        | 21.42                           | 14.628               |         |                              |
| 5,100.00                                            | 5,089.62                    | 5,064.91                    | 5,060.22                    | 11.50               | 11.15            | -178.88                     | -29.65                 | 164.83          | 335.75                       | 313.91                        | 21.85                           | 15.369               |         |                              |

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

# LEAM Drilling Systems LLC

## Anticollision Report

**Company:** DEVON ENERGY  
**Project:** Lea County, NM (NAD-83)  
**Reference Site:** Seawolf 1-12 Fed  
**Site Error:** 0.00 usft  
**Reference Well:** 94H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 94H  
**TVD Reference:** 3325.4' GE @ 3348.90usft  
**MD Reference:** 3325.4' GE @ 3348.90usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.1 Single User Db  
**Offset TVD Reference:** Offset Datum

| Offset Design Seawolf 1-12 Fed - 86H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: | 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|--------------------|-----------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: | 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning            |           |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                    |           |
| 5,200.00                                            | 5,188.64                    | 5,162.36                    | 5,157.30                    | 11.77               | 11.39            | -179.14                     | -29.65                                    | 173.32          | 358.14                       | 335.87                        | 22.27                           | 16.081               |                    |           |
| 5,300.00                                            | 5,287.67                    | 5,259.80                    | 5,254.38                    | 12.05               | 11.62            | -179.37                     | -29.65                                    | 181.81          | 380.54                       | 357.84                        | 22.70                           | 16.766               |                    |           |
| 5,400.00                                            | 5,386.70                    | 5,357.25                    | 5,351.45                    | 12.33               | 11.85            | -179.58                     | -29.65                                    | 190.31          | 402.94                       | 379.82                        | 23.13                           | 17.424               |                    |           |
| 5,500.00                                            | 5,485.72                    | 5,454.70                    | 5,448.53                    | 12.62               | 12.09            | -179.77                     | -29.65                                    | 198.80          | 425.35                       | 401.79                        | 23.56                           | 18.057               |                    |           |
| 5,600.00                                            | 5,584.75                    | 5,552.15                    | 5,545.61                    | 12.91               | 12.33            | -179.93                     | -29.65                                    | 207.29          | 447.76                       | 423.77                        | 23.99                           | 18.666               |                    |           |
| 5,700.00                                            | 5,683.78                    | 5,649.60                    | 5,642.69                    | 13.20               | 12.57            | -179.92                     | -29.65                                    | 215.79          | 470.17                       | 445.75                        | 24.42                           | 19.253               |                    |           |
| 5,800.00                                            | 5,782.81                    | 5,747.05                    | 5,739.77                    | 13.49               | 12.81            | -179.78                     | -29.65                                    | 224.28          | 492.59                       | 467.73                        | 24.86                           | 19.818               |                    |           |
| 5,900.00                                            | 5,881.83                    | 5,844.50                    | 5,836.84                    | 13.78               | 13.05            | -179.65                     | -29.65                                    | 232.77          | 515.00                       | 489.71                        | 25.29                           | 20.363               |                    |           |
| 6,000.00                                            | 5,980.86                    | 5,941.95                    | 5,933.92                    | 14.08               | 13.29            | -179.54                     | -29.65                                    | 241.27          | 537.42                       | 511.70                        | 25.73                           | 20.888               |                    |           |
| 6,100.00                                            | 6,079.89                    | 6,039.39                    | 6,031.00                    | 14.38               | 13.53            | -179.43                     | -29.65                                    | 249.76          | 559.85                       | 533.68                        | 26.17                           | 21.395               |                    |           |
| 6,200.00                                            | 6,178.91                    | 6,136.84                    | 6,128.08                    | 14.67               | 13.78            | -179.34                     | -29.65                                    | 258.25          | 582.27                       | 555.67                        | 26.61                           | 21.885               |                    |           |
| 6,300.00                                            | 6,277.94                    | 6,234.29                    | 6,225.16                    | 14.98               | 14.02            | -179.25                     | -29.65                                    | 266.75          | 604.70                       | 577.65                        | 27.05                           | 22.358               |                    |           |
| 6,400.00                                            | 6,376.97                    | 6,331.74                    | 6,322.23                    | 15.28               | 14.27            | -179.16                     | -29.65                                    | 275.24          | 627.12                       | 599.64                        | 27.49                           | 22.815               |                    |           |
| 6,500.00                                            | 6,475.99                    | 6,429.19                    | 6,419.31                    | 15.58               | 14.51            | -179.08                     | -29.65                                    | 283.73          | 649.55                       | 621.62                        | 27.93                           | 23.256               |                    |           |
| 6,600.00                                            | 6,575.02                    | 6,526.64                    | 6,516.39                    | 15.89               | 14.76            | -179.01                     | -29.65                                    | 292.23          | 671.98                       | 643.61                        | 28.37                           | 23.683               |                    |           |
| 6,700.00                                            | 6,674.05                    | 6,624.09                    | 6,613.47                    | 16.20               | 15.01            | -178.94                     | -29.65                                    | 300.72          | 694.41                       | 665.59                        | 28.82                           | 24.097               |                    |           |
| 6,800.00                                            | 6,773.07                    | 6,721.54                    | 6,710.55                    | 16.50               | 15.25            | -178.88                     | -29.65                                    | 309.21          | 716.84                       | 687.58                        | 29.26                           | 24.497               |                    |           |
| 6,900.00                                            | 6,872.10                    | 6,818.99                    | 6,807.62                    | 16.81               | 15.50            | -178.82                     | -29.65                                    | 317.71          | 739.27                       | 709.56                        | 29.71                           | 24.884               |                    |           |
| 7,000.00                                            | 6,971.13                    | 6,916.43                    | 6,904.70                    | 17.12               | 15.75            | -178.76                     | -29.65                                    | 326.20          | 761.71                       | 731.55                        | 30.16                           | 25.259               |                    |           |
| 7,100.00                                            | 7,070.15                    | 7,013.88                    | 7,001.78                    | 17.44               | 16.00            | -178.71                     | -29.65                                    | 334.69          | 784.14                       | 753.54                        | 30.60                           | 25.623               |                    |           |
| 7,200.00                                            | 7,169.18                    | 7,111.33                    | 7,098.86                    | 17.75               | 16.25            | -178.66                     | -29.65                                    | 343.18          | 806.57                       | 775.52                        | 31.05                           | 25.976               |                    |           |
| 7,300.00                                            | 7,268.21                    | 7,208.78                    | 7,195.94                    | 18.06               | 16.50            | -178.61                     | -29.65                                    | 351.68          | 829.01                       | 797.51                        | 31.50                           | 26.318               |                    |           |
| 7,400.00                                            | 7,367.23                    | 7,306.23                    | 7,293.01                    | 18.38               | 16.75            | -178.57                     | -29.65                                    | 360.17          | 851.44                       | 819.49                        | 31.95                           | 26.649               |                    |           |
| 7,500.00                                            | 7,466.26                    | 7,403.68                    | 7,390.09                    | 18.69               | 17.01            | -178.52                     | -29.65                                    | 368.66          | 873.88                       | 841.48                        | 32.40                           | 26.972               |                    |           |
| 7,600.00                                            | 7,565.29                    | 7,501.13                    | 7,487.17                    | 19.01               | 17.26            | -178.48                     | -29.65                                    | 377.16          | 896.31                       | 863.46                        | 32.85                           | 27.284               |                    |           |
| 7,700.00                                            | 7,664.31                    | 7,598.58                    | 7,584.25                    | 19.32               | 17.51            | -178.44                     | -29.65                                    | 385.65          | 918.75                       | 885.45                        | 33.30                           | 27.588               |                    |           |
| 7,800.00                                            | 7,763.34                    | 7,696.02                    | 7,681.33                    | 19.64               | 17.76            | -178.41                     | -29.65                                    | 394.14          | 941.18                       | 907.43                        | 33.75                           | 27.883               |                    |           |
| 7,900.00                                            | 7,862.37                    | 7,793.47                    | 7,778.40                    | 19.96               | 18.02            | -178.37                     | -29.65                                    | 402.64          | 963.62                       | 929.41                        | 34.21                           | 28.170               |                    |           |
| 8,000.00                                            | 7,961.40                    | 7,890.92                    | 7,875.48                    | 20.28               | 18.27            | -178.34                     | -29.65                                    | 411.13          | 986.06                       | 951.40                        | 34.66                           | 28.449               |                    |           |
| 8,100.00                                            | 8,060.42                    | 7,988.37                    | 7,972.56                    | 20.60               | 18.53            | -178.31                     | -29.65                                    | 419.62          | 1,008.50                     | 973.38                        | 35.11                           | 28.720               |                    |           |
| 8,200.00                                            | 8,159.45                    | 8,085.82                    | 8,069.64                    | 20.92               | 18.78            | -178.28                     | -29.65                                    | 428.12          | 1,030.93                     | 995.36                        | 35.57                           | 28.984               |                    |           |
| 8,300.00                                            | 8,258.48                    | 8,183.27                    | 8,166.72                    | 21.24               | 19.04            | -178.25                     | -29.65                                    | 436.61          | 1,053.37                     | 1,017.35                      | 36.02                           | 29.241               |                    |           |
| 8,400.00                                            | 8,357.50                    | 8,280.72                    | 8,263.79                    | 21.56               | 19.29            | -178.22                     | -29.65                                    | 445.10          | 1,075.81                     | 1,039.33                      | 36.48                           | 29.491               |                    |           |
| 8,500.00                                            | 8,456.53                    | 8,386.40                    | 8,369.10                    | 21.88               | 19.55            | -178.19                     | -29.65                                    | 453.59          | 1,097.95                     | 1,061.02                      | 36.94                           | 29.724               |                    |           |
| 8,600.00                                            | 8,555.56                    | 8,484.51                    | 8,476.91                    | 22.20               | 19.78            | -178.17                     | -29.65                                    | 462.09          | 1,119.20                     | 1,081.82                      | 37.38                           | 29.938               |                    |           |
| 8,700.00                                            | 8,654.58                    | 8,603.06                    | 8,585.22                    | 22.53               | 20.00            | -178.16                     | -29.65                                    | 469.20          | 1,139.54                     | 1,101.71                      | 37.83                           | 30.123               |                    |           |
| 8,800.00                                            | 8,753.61                    | 8,712.02                    | 8,694.01                    | 22.85               | 20.22            | -178.15                     | -29.65                                    | 475.31          | 1,158.94                     | 1,120.66                      | 38.28                           | 30.279               |                    |           |
| 8,900.00                                            | 8,852.70                    | 8,821.47                    | 8,803.34                    | 23.14               | 20.44            | -178.15                     | -29.65                                    | 480.40          | 1,176.99                     | 1,138.25                      | 38.73                           | 30.387               |                    |           |
| 9,000.00                                            | 8,951.90                    | 8,931.45                    | 8,913.25                    | 23.39               | 20.65            | -178.15                     | -29.65                                    | 484.46          | 1,193.24                     | 1,154.07                      | 39.17                           | 30.463               |                    |           |
| 9,100.00                                            | 9,051.20                    | 9,041.91                    | 9,023.66                    | 23.63               | 20.86            | -178.16                     | -29.65                                    | 487.48          | 1,207.68                     | 1,168.07                      | 39.61                           | 30.493               |                    |           |
| 9,200.00                                            | 9,150.61                    | 9,152.78                    | 9,134.52                    | 23.87               | 21.06            | -178.17                     | -29.65                                    | 489.44          | 1,220.31                     | 1,180.27                      | 40.04                           | 30.479               |                    |           |
| 9,300.00                                            | 9,250.10                    | 9,264.03                    | 9,245.76                    | 24.10               | 21.27            | -178.18                     | -29.65                                    | 490.33          | 1,231.11                     | 1,190.64                      | 40.47                           | 30.422               |                    |           |
| 9,400.00                                            | 9,349.68                    | 9,367.45                    | 9,349.18                    | 24.33               | 21.46            | -178.20                     | -29.65                                    | 490.39          | 1,240.31                     | 1,199.42                      | 40.89                           | 30.335               |                    |           |
| 9,500.00                                            | 9,449.34                    | 9,467.11                    | 9,448.84                    | 24.55               | 21.66            | -178.21                     | -29.65                                    | 490.39          | 1,248.58                     | 1,207.28                      | 41.31                           | 30.226               |                    |           |
| 9,600.00                                            | 9,549.07                    | 9,566.83                    | 9,548.57                    | 24.76               | 21.86            | -178.22                     | -29.65                                    | 490.39          | 1,255.99                     | 1,214.26                      | 41.73                           | 30.098               |                    |           |
| 9,700.00                                            | 9,648.85                    | 9,666.62                    | 9,648.35                    | 24.97               | 22.06            | -178.23                     | -29.65                                    | 490.39          | 1,262.53                     | 1,220.38                      | 42.15                           | 29.953               |                    |           |
| 9,800.00                                            | 9,748.69                    | 9,766.46                    | 9,748.19                    | 25.17               | 22.26            | -178.24                     | -29.65                                    | 490.39          | 1,268.19                     | 1,225.63                      | 42.57                           | 29.793               |                    |           |
| 9,900.00                                            | 9,848.57                    | 9,866.34                    | 9,848.07                    | 25.36               | 22.47            | -178.25                     | -29.65                                    | 490.39          | 1,272.99                     | 1,230.01                      | 42.98                           | 29.618               |                    |           |
| 10,000.00                                           | 9,948.50                    | 9,966.26                    | 9,948.00                    | 25.55               | 22.67            | -178.25                     | -29.65                                    | 490.39          | 1,276.91                     | 1,233.52                      | 43.39                           | 29.428               |                    |           |
| 10,100.00                                           | 10,048.45                   | 10,066.22                   | 10,047.95                   | 25.74               | 22.88            | -178.26                     | -29.65                                    | 490.39          | 1,279.97                     | 1,236.17                      | 43.80                           | 29.224               |                    |           |
| 10,200.00                                           | 10,148.43                   | 10,166.19                   | 10,147.93                   | 25.91               | 23.08            | -178.26                     | -29.65                                    | 490.39          | 1,282.15                     | 1,237.94                      | 44.20                           | 29.006               |                    |           |
| 10,300.00                                           | 10,248.42                   | 10,266.18                   | 10,247.92                   | 26.08               | 23.29            | -178.26                     | -29.65                                    | 490.39          | 1,283.46                     | 1,238.85                      | 44.60                           | 28.774               |                    |           |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
Project: Lea County, NM (NAD-83)  
Reference Site: Seawolf 1-12 Fed  
Site Error: 0.00 usft  
Reference Well: 94H  
Well Error: 0.00 usft  
Reference Wellbore: OH  
Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
TVD Reference: 3325.4' GE @ 3348.90usft  
MD Reference: 3325.4' GE @ 3348.90usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM 5000.1 Single User Db  
Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 86H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                        |                |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                        |                |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/S<br>(usft)         | +E/W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                              |
| 10,400.00                                           | 10,348.42                   | 10,366.18                   | 10,347.92                   | 26.25               | 23.49            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,238.89                      | 45.00                           | 28.529               |                              |
| 10,500.00                                           | 10,448.42                   | 10,466.18                   | 10,447.92                   | 26.42               | 23.70            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,238.48                      | 45.42                           | 28.270               |                              |
| 10,600.00                                           | 10,548.42                   | 10,566.18                   | 10,547.92                   | 26.60               | 23.91            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,238.05                      | 45.84                           | 28.008               |                              |
| 10,700.00                                           | 10,648.42                   | 10,666.18                   | 10,647.92                   | 26.79               | 24.12            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,237.63                      | 46.27                           | 27.750               |                              |
| 10,800.00                                           | 10,748.42                   | 10,766.18                   | 10,747.92                   | 26.98               | 24.32            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,237.20                      | 46.69                           | 27.497               |                              |
| 10,900.00                                           | 10,848.42                   | 10,866.18                   | 10,847.92                   | 27.16               | 24.53            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,236.77                      | 47.12                           | 27.248               |                              |
| 11,000.00                                           | 10,948.42                   | 10,966.18                   | 10,947.92                   | 27.35               | 24.74            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,236.35                      | 47.55                           | 27.004               |                              |
| 11,100.00                                           | 11,048.42                   | 11,066.18                   | 11,047.92                   | 27.54               | 24.95            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,235.92                      | 47.97                           | 26.763               |                              |
| 11,200.00                                           | 11,148.42                   | 11,166.18                   | 11,147.92                   | 27.73               | 25.16            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,235.49                      | 48.40                           | 26.527               |                              |
| 11,300.00                                           | 11,248.42                   | 11,266.18                   | 11,247.92                   | 27.92               | 25.36            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,235.06                      | 48.83                           | 26.294               |                              |
| 11,400.00                                           | 11,348.42                   | 11,366.18                   | 11,347.92                   | 28.11               | 25.57            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,234.64                      | 49.26                           | 26.066               |                              |
| 11,500.00                                           | 11,448.42                   | 11,466.18                   | 11,447.92                   | 28.30               | 25.78            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,234.21                      | 49.68                           | 25.841               |                              |
| 11,600.00                                           | 11,548.42                   | 11,566.18                   | 11,547.92                   | 28.49               | 25.99            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,233.78                      | 50.11                           | 25.619               |                              |
| 11,700.00                                           | 11,648.42                   | 11,666.18                   | 11,647.92                   | 28.68               | 26.20            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,233.35                      | 50.54                           | 25.402               |                              |
| 11,800.00                                           | 11,748.42                   | 11,766.18                   | 11,747.92                   | 28.87               | 26.41            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,232.92                      | 50.97                           | 25.188               |                              |
| 11,900.00                                           | 11,848.42                   | 11,866.18                   | 11,847.92                   | 29.06               | 26.62            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,232.49                      | 51.40                           | 24.977               |                              |
| 12,000.00                                           | 11,948.42                   | 11,966.18                   | 11,947.92                   | 29.25               | 26.83            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,232.06                      | 51.83                           | 24.769               |                              |
| 12,100.00                                           | 12,048.42                   | 12,066.18                   | 12,047.92                   | 29.45               | 27.04            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,231.63                      | 52.26                           | 24.565               |                              |
| 12,200.00                                           | 12,148.42                   | 12,166.18                   | 12,147.92                   | 29.64               | 27.26            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,231.20                      | 52.70                           | 24.364               |                              |
| 12,260.14                                           | 12,208.55                   | 12,226.32                   | 12,208.05                   | 29.76               | 27.38            | 96.26                       | -29.65                 | 490.39         | 1,283.89                     | 1,230.94                      | 52.96                           | 24.245               |                              |
| 12,300.00                                           | 12,248.42                   | 12,262.45                   | 12,244.18                   | 29.83               | 27.46            | 96.27                       | -29.82                 | 490.39         | 1,283.92                     | 1,230.80                      | 53.12                           | 24.172               |                              |
| 12,400.00                                           | 12,348.41                   | 12,338.71                   | 12,319.93                   | 30.03               | 27.60            | -83.76                      | -37.91                 | 490.39         | 1,285.08                     | 1,231.61                      | 53.46                           | 24.036               |                              |
| 12,500.00                                           | 12,447.13                   | 12,413.41                   | 12,391.96                   | 30.18               | 27.73            | -83.20                      | -57.41                 | 490.40         | 1,286.61                     | 1,232.86                      | 53.75                           | 23.938               |                              |
| 12,600.00                                           | 12,540.62                   | 12,487.43                   | 12,459.48                   | 30.31               | 27.87            | -82.87                      | -87.58                 | 490.42         | 1,287.68                     | 1,233.68                      | 54.00                           | 23.846               |                              |
| 12,700.00                                           | 12,624.80                   | 12,561.19                   | 12,521.32                   | 30.43               | 28.01            | -82.78                      | -127.65                | 490.44         | 1,288.20                     | 1,233.95                      | 54.25                           | 23.746               |                              |
| 12,800.00                                           | 12,695.99                   | 12,635.10                   | 12,576.35                   | 30.56               | 28.16            | -82.95                      | -176.86                | 490.46         | 1,288.13                     | 1,233.58                      | 54.54                           | 23.617               |                              |
| 12,900.00                                           | 12,751.07                   | 12,709.56                   | 12,623.47                   | 30.70               | 28.34            | -83.36                      | -234.43                | 490.48         | 1,287.52                     | 1,232.59                      | 54.93                           | 23.440               |                              |
| 13,000.00                                           | 12,787.65                   | 12,785.04                   | 12,661.51                   | 30.89               | 28.55            | -83.99                      | -299.53                | 490.52         | 1,286.49                     | 1,231.04                      | 55.45                           | 23.203               |                              |
| 13,100.00                                           | 12,804.11                   | 12,862.04                   | 12,689.26                   | 31.17               | 28.81            | -84.84                      | -371.26                | 490.55         | 1,285.22                     | 1,229.10                      | 56.11                           | 22.904               |                              |
| 13,200.00                                           | 12,805.05                   | 12,941.90                   | 12,705.49                   | 31.54               | 29.15            | -85.58                      | -449.36                | 490.58         | 1,284.33                     | 1,227.39                      | 56.94                           | 22.554               |                              |
| 13,210.03                                           | 12,805.06                   | 12,950.00                   | 12,706.40                   | 31.59               | 29.18            | -85.62                      | -457.41                | 490.59         | 1,284.32                     | 1,227.28                      | 57.04                           | 22.516               |                              |
| 13,300.00                                           | 12,805.12                   | 13,029.67                   | 12,708.90                   | 32.02               | 29.59            | -85.73                      | -536.99                | 490.63         | 1,284.80                     | 1,226.84                      | 57.96                           | 22.165               |                              |
| 13,400.00                                           | 12,805.20                   | 13,129.67                   | 12,708.59                   | 32.60               | 30.18            | -85.71                      | -636.99                | 490.67         | 1,285.61                     | 1,226.39                      | 59.22                           | 21.708               |                              |
| 13,500.00                                           | 12,805.27                   | 13,229.67                   | 12,708.28                   | 33.27               | 30.87            | -85.70                      | -736.98                | 490.72         | 1,286.42                     | 1,225.75                      | 60.67                           | 21.203               |                              |
| 13,600.00                                           | 12,805.34                   | 13,329.66                   | 12,707.96                   | 34.03               | 31.65            | -85.68                      | -836.98                | 490.76         | 1,287.23                     | 1,224.93                      | 62.30                           | 20.662               |                              |
| 13,700.00                                           | 12,805.41                   | 13,429.66                   | 12,707.65                   | 34.88               | 32.52            | -85.67                      | -936.97                | 490.81         | 1,288.04                     | 1,223.95                      | 64.09                           | 20.097               |                              |
| 13,800.00                                           | 12,805.48                   | 13,529.65                   | 12,707.33                   | 35.79               | 33.46            | -85.65                      | -1,036.97              | 490.86         | 1,288.85                     | 1,222.81                      | 66.04                           | 19.517               |                              |
| 13,900.00                                           | 12,805.56                   | 13,629.65                   | 12,707.02                   | 36.78               | 34.47            | -85.64                      | -1,136.97              | 490.90         | 1,289.66                     | 1,221.54                      | 68.12                           | 18.932               |                              |
| 14,000.00                                           | 12,805.63                   | 13,729.65                   | 12,706.71                   | 37.83               | 35.55            | -85.63                      | -1,236.96              | 490.95         | 1,290.47                     | 1,220.14                      | 70.33                           | 18.349               |                              |
| 14,100.00                                           | 12,805.70                   | 13,829.64                   | 12,706.39                   | 38.94               | 36.69            | -85.61                      | -1,336.96              | 491.00         | 1,291.28                     | 1,218.63                      | 72.65                           | 17.774               |                              |
| 14,200.00                                           | 12,805.77                   | 13,929.64                   | 12,706.08                   | 40.10               | 37.88            | -85.60                      | -1,436.95              | 491.04         | 1,292.09                     | 1,217.01                      | 75.08                           | 17.210               |                              |
| 14,300.00                                           | 12,805.85                   | 14,029.63                   | 12,705.76                   | 41.31               | 39.11            | -85.58                      | -1,536.95              | 491.09         | 1,292.90                     | 1,215.30                      | 77.60                           | 16.661               |                              |
| 14,400.00                                           | 12,805.92                   | 14,129.63                   | 12,705.45                   | 42.57               | 40.40            | -85.57                      | -1,636.94              | 491.14         | 1,293.71                     | 1,213.50                      | 80.21                           | 16.130               |                              |
| 14,500.00                                           | 12,805.99                   | 14,229.63                   | 12,705.14                   | 43.86               | 41.72            | -85.55                      | -1,736.94              | 491.18         | 1,294.52                     | 1,211.63                      | 82.89                           | 15.617               |                              |
| 14,600.00                                           | 12,806.06                   | 14,329.62                   | 12,704.82                   | 45.19               | 43.08            | -85.54                      | -1,836.93              | 491.23         | 1,295.32                     | 1,209.68                      | 85.64                           | 15.125               |                              |
| 14,700.00                                           | 12,806.13                   | 14,429.62                   | 12,704.51                   | 46.55               | 44.47            | -85.53                      | -1,936.93              | 491.27         | 1,296.13                     | 1,207.67                      | 88.46                           | 14.652               |                              |
| 14,800.00                                           | 12,806.21                   | 14,529.62                   | 12,704.19                   | 47.95               | 45.90            | -85.51                      | -2,036.93              | 491.32         | 1,296.94                     | 1,205.61                      | 91.33                           | 14.200               |                              |
| 14,900.00                                           | 12,806.28                   | 14,629.61                   | 12,703.88                   | 49.37               | 47.35            | -85.50                      | -2,136.92              | 491.37         | 1,297.76                     | 1,203.49                      | 94.26                           | 13.768               |                              |
| 15,000.00                                           | 12,806.35                   | 14,729.61                   | 12,703.57                   | 50.82               | 48.82            | -85.48                      | -2,236.92              | 491.41         | 1,298.57                     | 1,201.33                      | 97.24                           | 13.355               |                              |
| 15,100.00                                           | 12,806.42                   | 14,829.60                   | 12,703.25                   | 52.29               | 50.32            | -85.47                      | -2,336.91              | 491.46         | 1,299.38                     | 1,199.12                      | 100.25                          | 12.961               |                              |
| 15,200.00                                           | 12,806.49                   | 14,929.60                   | 12,702.94                   | 53.78               | 51.84            | -85.45                      | -2,436.91              | 491.51         | 1,300.19                     | 1,196.88                      | 103.31                          | 12.585               |                              |
| 15,300.00                                           | 12,806.57                   | 15,029.60                   | 12,702.62                   | 55.29               | 53.38            | -85.44                      | -2,536.90              | 491.55         | 1,301.00                     | 1,194.59                      | 106.40                          | 12.227               |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 86H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                          |                |                                 |                      |         |        | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------------------------|----------------|---------------------------------|----------------------|---------|--------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                          |                |                                 |                      |         |        | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                 |                | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |        |                              |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N-S<br>(usft) | +E-W<br>(usft) |                                 |                      |         |        |                              |
| 15,400.00                                           | 12,806.64                   | 15,129.59                   | 12,702.31                   | 56.82               | 54.93            | -85.43                      | -2,636.90                                | 491.60         | 1,301.81                        | 1,192.28             | 109.53  | 11.885 |                              |
| 15,500.00                                           | 12,806.71                   | 15,229.59                   | 12,702.00                   | 58.37               | 56.50            | -85.41                      | -2,736.90                                | 491.64         | 1,302.62                        | 1,189.93             | 112.69  | 11.560 |                              |
| 15,600.00                                           | 12,806.78                   | 15,329.59                   | 12,701.68                   | 59.93               | 58.09            | -85.40                      | -2,836.89                                | 491.69         | 1,303.43                        | 1,187.56             | 115.87  | 11.249 |                              |
| 15,700.00                                           | 12,806.86                   | 15,429.58                   | 12,701.37                   | 61.51               | 59.69            | -85.38                      | -2,936.89                                | 491.74         | 1,304.24                        | 1,185.16             | 119.08  | 10.953 |                              |
| 15,800.00                                           | 12,806.93                   | 15,529.58                   | 12,701.06                   | 63.10               | 61.30            | -85.37                      | -3,036.88                                | 491.78         | 1,305.05                        | 1,182.74             | 122.31  | 10.670 |                              |
| 15,900.00                                           | 12,807.00                   | 15,629.57                   | 12,700.74                   | 64.70               | 62.92            | -85.35                      | -3,136.88                                | 491.83         | 1,305.86                        | 1,180.29             | 125.57  | 10.400 |                              |
| 16,000.00                                           | 12,807.07                   | 15,729.57                   | 12,700.43                   | 66.31               | 64.56            | -85.34                      | -3,236.87                                | 491.88         | 1,306.67                        | 1,177.83             | 128.84  | 10.142 |                              |
| 16,100.00                                           | 12,807.14                   | 15,829.57                   | 12,700.11                   | 67.93               | 66.20            | -85.33                      | -3,336.87                                | 491.92         | 1,307.48                        | 1,175.35             | 132.13  | 9.895  |                              |
| 16,200.00                                           | 12,807.22                   | 15,929.56                   | 12,699.80                   | 69.57               | 67.85            | -85.31                      | -3,436.87                                | 491.97         | 1,308.29                        | 1,172.85             | 135.44  | 9.659  |                              |
| 16,300.00                                           | 12,807.29                   | 16,029.56                   | 12,699.49                   | 71.21               | 69.52            | -85.30                      | -3,536.86                                | 492.02         | 1,309.11                        | 1,170.34             | 138.77  | 9.434  |                              |
| 16,400.00                                           | 12,807.36                   | 16,129.55                   | 12,699.17                   | 72.86               | 71.19            | -85.28                      | -3,636.86                                | 492.06         | 1,309.92                        | 1,167.81             | 142.11  | 9.218  |                              |
| 16,500.00                                           | 12,807.43                   | 16,229.55                   | 12,698.86                   | 74.52               | 72.86            | -85.27                      | -3,736.85                                | 492.11         | 1,310.73                        | 1,165.26             | 145.47  | 9.011  |                              |
| 16,600.00                                           | 12,807.50                   | 16,329.55                   | 12,698.54                   | 76.19               | 74.55            | -85.26                      | -3,836.85                                | 492.15         | 1,311.54                        | 1,162.71             | 148.83  | 8.812  |                              |
| 16,700.00                                           | 12,807.58                   | 16,429.54                   | 12,698.23                   | 77.86               | 76.24            | -85.24                      | -3,936.84                                | 492.20         | 1,312.35                        | 1,160.14             | 152.21  | 8.622  |                              |
| 16,800.00                                           | 12,807.65                   | 16,529.54                   | 12,697.92                   | 79.54               | 77.93            | -85.23                      | -4,036.84                                | 492.25         | 1,313.16                        | 1,157.56             | 155.60  | 8.439  |                              |
| 16,900.00                                           | 12,807.72                   | 16,629.54                   | 12,697.60                   | 81.22               | 79.63            | -85.21                      | -4,136.84                                | 492.29         | 1,313.97                        | 1,154.97             | 159.00  | 8.264  |                              |
| 17,000.00                                           | 12,807.79                   | 16,729.53                   | 12,697.29                   | 82.91               | 81.34            | -85.20                      | -4,236.83                                | 492.34         | 1,314.79                        | 1,152.37             | 162.41  | 8.095  |                              |
| 17,100.00                                           | 12,807.87                   | 16,829.53                   | 12,696.97                   | 84.61               | 83.05            | -85.19                      | -4,336.83                                | 492.39         | 1,315.60                        | 1,149.76             | 165.83  | 7.933  |                              |
| 17,200.00                                           | 12,807.94                   | 16,929.52                   | 12,696.66                   | 86.31               | 84.77            | -85.17                      | -4,436.82                                | 492.43         | 1,316.41                        | 1,147.15             | 169.26  | 7.777  |                              |
| 17,300.00                                           | 12,808.01                   | 17,029.52                   | 12,696.35                   | 88.02               | 86.49            | -85.16                      | -4,536.82                                | 492.48         | 1,317.22                        | 1,144.52             | 172.70  | 7.627  |                              |
| 17,400.00                                           | 12,808.08                   | 17,129.52                   | 12,696.03                   | 89.73               | 88.21            | -85.15                      | -4,636.81                                | 492.53         | 1,318.03                        | 1,141.89             | 176.14  | 7.483  |                              |
| 17,500.00                                           | 12,808.15                   | 17,229.51                   | 12,695.72                   | 91.45               | 89.94            | -85.13                      | -4,736.81                                | 492.57         | 1,318.85                        | 1,139.25             | 179.59  | 7.343  |                              |
| 17,600.00                                           | 12,808.23                   | 17,329.51                   | 12,695.40                   | 93.16               | 91.67            | -85.12                      | -4,836.81                                | 492.62         | 1,319.66                        | 1,136.61             | 183.05  | 7.209  |                              |
| 17,700.00                                           | 12,808.30                   | 17,429.51                   | 12,695.09                   | 94.89               | 93.41            | -85.10                      | -4,936.80                                | 492.66         | 1,320.47                        | 1,133.95             | 186.52  | 7.080  |                              |
| 17,800.00                                           | 12,808.37                   | 17,529.50                   | 12,694.78                   | 96.61               | 95.15            | -85.09                      | -5,036.80                                | 492.71         | 1,321.28                        | 1,131.30             | 189.99  | 6.955  |                              |
| 17,900.00                                           | 12,808.44                   | 17,629.50                   | 12,694.46                   | 98.34               | 96.89            | -85.08                      | -5,136.79                                | 492.76         | 1,322.10                        | 1,128.63             | 193.46  | 6.834  |                              |
| 18,000.00                                           | 12,808.51                   | 17,729.49                   | 12,694.15                   | 100.08              | 98.63            | -85.06                      | -5,236.79                                | 492.80         | 1,322.91                        | 1,125.96             | 196.95  | 6.717  |                              |
| 18,100.00                                           | 12,808.59                   | 17,829.49                   | 12,693.83                   | 101.81              | 100.38           | -85.05                      | -5,336.78                                | 492.85         | 1,323.72                        | 1,123.29             | 200.43  | 6.604  |                              |
| 18,200.00                                           | 12,808.66                   | 17,929.49                   | 12,693.52                   | 103.55              | 102.13           | -85.04                      | -5,436.78                                | 492.90         | 1,324.53                        | 1,120.61             | 203.92  | 6.495  |                              |
| 18,300.00                                           | 12,808.73                   | 18,029.48                   | 12,693.21                   | 105.29              | 103.88           | -85.02                      | -5,536.78                                | 492.94         | 1,325.35                        | 1,117.93             | 207.42  | 6.390  |                              |
| 18,400.00                                           | 12,808.80                   | 18,129.48                   | 12,692.89                   | 107.04              | 105.64           | -85.01                      | -5,636.77                                | 492.99         | 1,326.16                        | 1,115.24             | 210.92  | 6.288  |                              |
| 18,500.00                                           | 12,808.87                   | 18,229.47                   | 12,692.58                   | 108.78              | 107.40           | -84.99                      | -5,736.77                                | 493.04         | 1,326.97                        | 1,112.55             | 214.42  | 6.189  |                              |
| 18,600.00                                           | 12,808.95                   | 18,329.47                   | 12,692.26                   | 110.53              | 109.16           | -84.98                      | -5,836.76                                | 493.08         | 1,327.78                        | 1,109.85             | 217.93  | 6.093  |                              |
| 18,700.00                                           | 12,809.02                   | 18,429.47                   | 12,691.95                   | 112.28              | 110.92           | -84.97                      | -5,936.76                                | 493.13         | 1,328.60                        | 1,107.15             | 221.44  | 6.000  |                              |
| 18,800.00                                           | 12,809.09                   | 18,529.46                   | 12,691.64                   | 114.04              | 112.68           | -84.95                      | -6,036.75                                | 493.17         | 1,329.41                        | 1,104.45             | 224.96  | 5.910  |                              |
| 18,900.00                                           | 12,809.16                   | 18,629.46                   | 12,691.32                   | 115.79              | 114.45           | -84.94                      | -6,136.75                                | 493.22         | 1,330.22                        | 1,101.75             | 228.48  | 5.822  |                              |
| 19,000.00                                           | 12,809.24                   | 18,729.46                   | 12,691.01                   | 117.55              | 116.21           | -84.93                      | -6,236.75                                | 493.27         | 1,331.04                        | 1,099.04             | 232.00  | 5.737  |                              |
| 19,100.00                                           | 12,809.31                   | 18,829.45                   | 12,690.70                   | 119.31              | 117.98           | -84.91                      | -6,336.74                                | 493.31         | 1,331.85                        | 1,096.33             | 235.52  | 5.655  |                              |
| 19,200.00                                           | 12,809.38                   | 18,929.45                   | 12,690.38                   | 121.07              | 119.75           | -84.90                      | -6,436.74                                | 493.36         | 1,332.66                        | 1,093.61             | 239.05  | 5.575  |                              |
| 19,300.00                                           | 12,809.45                   | 19,029.44                   | 12,690.07                   | 122.84              | 121.52           | -84.89                      | -6,536.73                                | 493.41         | 1,333.48                        | 1,090.89             | 242.58  | 5.497  |                              |
| 19,400.00                                           | 12,809.52                   | 19,129.44                   | 12,689.75                   | 124.60              | 123.30           | -84.87                      | -6,636.73                                | 493.45         | 1,334.29                        | 1,088.17             | 246.12  | 5.421  |                              |
| 19,500.00                                           | 12,809.60                   | 19,229.44                   | 12,689.44                   | 126.37              | 125.07           | -84.86                      | -6,736.72                                | 493.50         | 1,335.11                        | 1,085.45             | 249.65  | 5.348  |                              |
| 19,600.00                                           | 12,809.67                   | 19,329.43                   | 12,689.13                   | 128.13              | 126.85           | -84.84                      | -6,836.72                                | 493.55         | 1,335.92                        | 1,082.73             | 253.19  | 5.276  |                              |
| 19,700.00                                           | 12,809.74                   | 19,429.43                   | 12,688.81                   | 129.90              | 128.63           | -84.83                      | -6,936.72                                | 493.59         | 1,336.73                        | 1,080.00             | 256.73  | 5.207  |                              |
| 19,800.00                                           | 12,809.81                   | 19,529.43                   | 12,688.50                   | 131.67              | 130.40           | -84.82                      | -7,036.71                                | 493.64         | 1,337.55                        | 1,077.27             | 260.27  | 5.139  |                              |
| 19,900.00                                           | 12,809.88                   | 19,629.42                   | 12,688.18                   | 133.45              | 132.18           | -84.80                      | -7,136.71                                | 493.68         | 1,338.36                        | 1,074.54             | 263.82  | 5.073  |                              |
| 20,000.00                                           | 12,809.96                   | 19,729.42                   | 12,687.87                   | 135.22              | 133.97           | -84.79                      | -7,236.70                                | 493.73         | 1,339.17                        | 1,071.81             | 267.37  | 5.009  |                              |
| 20,100.00                                           | 12,810.03                   | 19,829.41                   | 12,687.56                   | 136.99              | 135.75           | -84.78                      | -7,336.70                                | 493.78         | 1,339.99                        | 1,069.07             | 270.92  | 4.946  |                              |
| 20,200.00                                           | 12,810.10                   | 19,929.41                   | 12,687.24                   | 138.77              | 137.53           | -84.76                      | -7,436.69                                | 493.82         | 1,340.80                        | 1,066.34             | 274.47  | 4.885  |                              |
| 20,300.00                                           | 12,810.17                   | 20,029.41                   | 12,686.93                   | 140.55              | 139.31           | -84.75                      | -7,536.69                                | 493.87         | 1,341.62                        | 1,063.60             | 278.02  | 4.826  |                              |
| 20,400.00                                           | 12,810.25                   | 20,129.40                   | 12,686.61                   | 142.32              | 141.10           | -84.74                      | -7,636.69                                | 493.92         | 1,342.43                        | 1,060.86             | 281.57  | 4.768  |                              |
| 20,500.00                                           | 12,810.32                   | 20,229.40                   | 12,686.30                   | 144.10              | 142.89           | -84.72                      | -7,736.68                                | 493.96         | 1,343.25                        | 1,058.12             | 285.13  | 4.711  |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 86H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                                 |                      |         |          | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|---------------------------------|----------------------|---------|----------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                                 |                      |         |          | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |          |                              |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                                 |                      |         |          |                              |
| 20,600.00                                           | 12,810.39                   | 20,329.40                   | 12,685.99                   | 145.88              | 144.67           | -84.71                      | -7,836.68                                 | 494.01          | 1,344.06                        | 1,055.37             | 288.69  | 4.656    |                              |
| 20,700.00                                           | 12,810.46                   | 20,429.39                   | 12,685.67                   | 147.66              | 146.46           | -84.70                      | -7,936.67                                 | 494.05          | 1,344.87                        | 1,052.63             | 292.25  | 4.602    |                              |
| 20,800.00                                           | 12,810.53                   | 20,529.39                   | 12,685.36                   | 149.45              | 148.25           | -84.68                      | -8,036.67                                 | 494.10          | 1,345.69                        | 1,049.88             | 295.81  | 4.549    |                              |
| 20,900.00                                           | 12,810.61                   | 20,629.38                   | 12,685.04                   | 151.23              | 150.04           | -84.67                      | -8,136.66                                 | 494.15          | 1,346.50                        | 1,047.14             | 299.37  | 4.498    |                              |
| 21,000.00                                           | 12,810.68                   | 20,729.38                   | 12,684.73                   | 153.01              | 151.83           | -84.66                      | -8,236.66                                 | 494.19          | 1,347.32                        | 1,044.39             | 302.93  | 4.448    |                              |
| 21,100.00                                           | 12,810.75                   | 20,829.38                   | 12,684.42                   | 154.80              | 153.62           | -84.64                      | -8,336.65                                 | 494.24          | 1,348.13                        | 1,041.64             | 306.50  | 4.399    |                              |
| 21,200.00                                           | 12,810.82                   | 20,929.37                   | 12,684.10                   | 156.58              | 155.41           | -84.63                      | -8,436.65                                 | 494.29          | 1,348.95                        | 1,038.89             | 310.06  | 4.351    |                              |
| 21,300.00                                           | 12,810.89                   | 21,029.37                   | 12,683.79                   | 158.37              | 157.20           | -84.62                      | -8,536.65                                 | 494.33          | 1,349.76                        | 1,036.13             | 313.63  | 4.304    |                              |
| 21,400.00                                           | 12,810.97                   | 21,129.36                   | 12,683.47                   | 160.16              | 159.00           | -84.60                      | -8,636.64                                 | 494.38          | 1,350.58                        | 1,033.38             | 317.20  | 4.258    |                              |
| 21,500.00                                           | 12,811.04                   | 21,229.36                   | 12,683.16                   | 161.94              | 160.79           | -84.59                      | -8,736.64                                 | 494.43          | 1,351.39                        | 1,030.63             | 320.77  | 4.213    |                              |
| 21,600.00                                           | 12,811.11                   | 21,329.36                   | 12,682.85                   | 163.73              | 162.59           | -84.58                      | -8,836.63                                 | 494.47          | 1,352.21                        | 1,027.87             | 324.34  | 4.169    |                              |
| 21,700.00                                           | 12,811.18                   | 21,429.35                   | 12,682.53                   | 165.52              | 164.38           | -84.57                      | -8,936.63                                 | 494.52          | 1,353.02                        | 1,025.12             | 327.91  | 4.126    |                              |
| 21,800.00                                           | 12,811.26                   | 21,529.35                   | 12,682.22                   | 167.31              | 166.18           | -84.55                      | -9,036.62                                 | 494.56          | 1,353.84                        | 1,022.36             | 331.48  | 4.084    |                              |
| 21,900.00                                           | 12,811.33                   | 21,629.35                   | 12,681.90                   | 169.10              | 167.97           | -84.54                      | -9,136.62                                 | 494.61          | 1,354.66                        | 1,019.60             | 335.05  | 4.043    |                              |
| 22,000.00                                           | 12,811.40                   | 21,729.34                   | 12,681.59                   | 170.89              | 169.77           | -84.53                      | -9,236.62                                 | 494.66          | 1,355.47                        | 1,016.84             | 338.63  | 4.003    |                              |
| 22,100.00                                           | 12,811.47                   | 21,829.34                   | 12,681.28                   | 172.68              | 171.57           | -84.51                      | -9,336.61                                 | 494.70          | 1,356.29                        | 1,014.08             | 342.20  | 3.963    |                              |
| 22,200.00                                           | 12,811.54                   | 21,929.33                   | 12,680.96                   | 174.48              | 173.36           | -84.50                      | -9,436.61                                 | 494.75          | 1,357.10                        | 1,011.32             | 345.78  | 3.925    |                              |
| 22,300.00                                           | 12,811.62                   | 22,029.33                   | 12,680.65                   | 176.27              | 175.16           | -84.49                      | -9,536.60                                 | 494.80          | 1,357.92                        | 1,008.56             | 349.36  | 3.887    |                              |
| 22,400.00                                           | 12,811.69                   | 22,129.33                   | 12,680.34                   | 178.06              | 176.96           | -84.47                      | -9,636.60                                 | 494.84          | 1,358.73                        | 1,005.80             | 352.93  | 3.850    |                              |
| 22,500.00                                           | 12,811.76                   | 22,229.32                   | 12,680.02                   | 179.86              | 178.76           | -84.46                      | -9,736.59                                 | 494.89          | 1,359.55                        | 1,003.04             | 356.51  | 3.813    |                              |
| 22,600.00                                           | 12,811.83                   | 22,329.32                   | 12,679.71                   | 181.65              | 180.56           | -84.45                      | -9,836.59                                 | 494.94          | 1,360.37                        | 1,000.27             | 360.09  | 3.778    |                              |
| 22,700.00                                           | 12,811.90                   | 22,429.32                   | 12,679.39                   | 183.45              | 182.36           | -84.43                      | -9,936.59                                 | 494.98          | 1,361.18                        | 997.51               | 363.67  | 3.743    |                              |
| 22,800.00                                           | 12,811.98                   | 22,529.31                   | 12,679.08                   | 185.24              | 184.16           | -84.42                      | -10,036.58                                | 495.03          | 1,362.00                        | 994.75               | 367.25  | 3.709    |                              |
| 22,833.77                                           | 12,812.00                   | 22,554.56                   | 12,679.00                   | 185.86              | 184.62           | -84.42                      | -10,061.83                                | 495.04          | 1,362.30                        | 993.99               | 368.30  | 3.699 SF |                              |

# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 95H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 0.00                                                | 0.00                        | 0.30                        | 0.30                        | 0.00                | 0.00             | 89.61                       | 0.34                                      | 49.97           | 49.97                        |                               |                                 |                      |                              |
| 100.00                                              | 100.00                      | 100.30                      | 100.30                      | 0.09                | 0.09             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 49.80                         | 0.17                            | 289.486              |                              |
| 200.00                                              | 200.00                      | 200.30                      | 200.30                      | 0.31                | 0.31             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 49.35                         | 0.62                            | 80.320               |                              |
| 300.00                                              | 300.00                      | 300.30                      | 300.30                      | 0.54                | 0.54             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 48.90                         | 1.07                            | 46.629               |                              |
| 400.00                                              | 400.00                      | 400.30                      | 400.30                      | 0.76                | 0.76             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 48.45                         | 1.52                            | 32.849               |                              |
| 500.00                                              | 500.00                      | 500.30                      | 500.30                      | 0.99                | 0.99             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 48.00                         | 1.97                            | 25.356               |                              |
| 600.00                                              | 600.00                      | 600.30                      | 600.30                      | 1.21                | 1.21             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 47.55                         | 2.42                            | 20.647               |                              |
| 700.00                                              | 700.00                      | 700.30                      | 700.30                      | 1.43                | 1.44             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 47.10                         | 2.87                            | 17.413               |                              |
| 800.00                                              | 800.00                      | 800.30                      | 800.30                      | 1.66                | 1.66             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 46.65                         | 3.32                            | 15.055               |                              |
| 900.00                                              | 900.00                      | 900.30                      | 900.30                      | 1.88                | 1.88             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 46.20                         | 3.77                            | 13.259               |                              |
| 1,000.00                                            | 1,000.00                    | 1,000.30                    | 1,000.30                    | 2.11                | 2.11             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 45.75                         | 4.22                            | 11.846               |                              |
| 1,100.00                                            | 1,100.00                    | 1,100.30                    | 1,100.30                    | 2.33                | 2.33             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 45.30                         | 4.67                            | 10.705               |                              |
| 1,200.00                                            | 1,200.00                    | 1,200.30                    | 1,200.30                    | 2.56                | 2.56             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 44.85                         | 5.12                            | 9.765                |                              |
| 1,300.00                                            | 1,300.00                    | 1,300.30                    | 1,300.30                    | 2.78                | 2.78             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 44.40                         | 5.57                            | 8.976                |                              |
| 1,400.00                                            | 1,400.00                    | 1,400.30                    | 1,400.30                    | 3.01                | 3.01             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 43.95                         | 6.02                            | 8.306                |                              |
| 1,500.00                                            | 1,500.00                    | 1,500.30                    | 1,500.30                    | 3.23                | 3.23             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 43.51                         | 6.47                            | 7.728                |                              |
| 1,600.00                                            | 1,600.00                    | 1,600.30                    | 1,600.30                    | 3.46                | 3.46             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 43.06                         | 6.92                            | 7.226                |                              |
| 1,700.00                                            | 1,700.00                    | 1,700.30                    | 1,700.30                    | 3.68                | 3.68             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 42.61                         | 7.37                            | 6.785                |                              |
| 1,800.00                                            | 1,800.00                    | 1,800.30                    | 1,800.30                    | 3.91                | 3.91             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 42.16                         | 7.81                            | 6.395                |                              |
| 1,900.00                                            | 1,900.00                    | 1,900.30                    | 1,900.30                    | 4.13                | 4.13             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 41.71                         | 8.26                            | 6.047                |                              |
| 2,000.00                                            | 2,000.00                    | 2,000.30                    | 2,000.30                    | 4.36                | 4.36             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 41.26                         | 8.71                            | 5.735                |                              |
| 2,100.00                                            | 2,100.00                    | 2,100.30                    | 2,100.30                    | 4.58                | 4.58             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 40.81                         | 9.16                            | 5.453                |                              |
| 2,200.00                                            | 2,200.00                    | 2,200.30                    | 2,200.30                    | 4.81                | 4.81             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 40.36                         | 9.61                            | 5.198                |                              |
| 2,300.00                                            | 2,300.00                    | 2,300.30                    | 2,300.30                    | 5.03                | 5.03             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 39.91                         | 10.06                           | 4.966                |                              |
| 2,400.00                                            | 2,400.00                    | 2,400.30                    | 2,400.30                    | 5.26                | 5.26             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 39.46                         | 10.51                           | 4.754                |                              |
| 2,500.00                                            | 2,500.00                    | 2,500.30                    | 2,500.30                    | 5.48                | 5.48             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 39.01                         | 10.96                           | 4.559                |                              |
| 2,600.00                                            | 2,600.00                    | 2,600.30                    | 2,600.30                    | 5.71                | 5.71             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 38.56                         | 11.41                           | 4.379                |                              |
| 2,700.00                                            | 2,700.00                    | 2,700.30                    | 2,700.30                    | 5.93                | 5.93             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 38.11                         | 11.86                           | 4.213                |                              |
| 2,800.00                                            | 2,800.00                    | 2,800.30                    | 2,800.30                    | 6.15                | 6.16             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 37.66                         | 12.31                           | 4.059                |                              |
| 2,900.00                                            | 2,900.00                    | 2,900.30                    | 2,900.30                    | 6.38                | 6.38             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 37.21                         | 12.76                           | 3.916                |                              |
| 3,000.00                                            | 3,000.00                    | 3,000.30                    | 3,000.30                    | 6.60                | 6.60             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 36.76                         | 13.21                           | 3.783                |                              |
| 3,100.00                                            | 3,100.00                    | 3,100.30                    | 3,100.30                    | 6.83                | 6.83             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 36.31                         | 13.66                           | 3.659                |                              |
| 3,200.00                                            | 3,200.00                    | 3,200.30                    | 3,200.30                    | 7.05                | 7.05             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 35.86                         | 14.11                           | 3.542                |                              |
| 3,300.00                                            | 3,300.00                    | 3,300.30                    | 3,300.30                    | 7.28                | 7.28             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 35.41                         | 14.56                           | 3.433                |                              |
| 3,400.00                                            | 3,400.00                    | 3,400.30                    | 3,400.30                    | 7.50                | 7.50             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 34.96                         | 15.01                           | 3.330                |                              |
| 3,500.00                                            | 3,500.00                    | 3,500.30                    | 3,500.30                    | 7.73                | 7.73             | 89.61                       | 0.34                                      | 49.97           | 49.97                        | 34.51                         | 15.46                           | 3.233 CC, ES         |                              |
| 3,600.00                                            | 3,600.00                    | 3,600.30                    | 3,600.30                    | 7.94                | 7.95             | 171.75                      | 0.34                                      | 49.97           | 50.83                        | 34.94                         | 15.89                           | 3.199                |                              |
| 3,700.00                                            | 3,699.96                    | 3,700.26                    | 3,700.26                    | 8.14                | 8.18             | 172.15                      | 0.34                                      | 49.97           | 53.43                        | 37.12                         | 16.31                           | 3.276                |                              |
| 3,800.00                                            | 3,799.86                    | 3,800.16                    | 3,800.16                    | 8.35                | 8.40             | 172.74                      | 0.34                                      | 49.97           | 57.75                        | 41.03                         | 16.72                           | 3.453                |                              |
| 3,900.00                                            | 3,899.68                    | 3,899.98                    | 3,899.98                    | 8.56                | 8.63             | 173.42                      | 0.34                                      | 49.97           | 63.81                        | 46.68                         | 17.13                           | 3.724                |                              |
| 4,000.00                                            | 3,999.37                    | 3,999.67                    | 3,999.67                    | 8.77                | 8.85             | 174.13                      | 0.34                                      | 49.97           | 71.61                        | 54.07                         | 17.54                           | 4.083                |                              |
| 4,100.00                                            | 4,098.90                    | 4,099.20                    | 4,099.20                    | 8.98                | 9.07             | 174.82                      | 0.34                                      | 49.97           | 81.15                        | 63.21                         | 17.94                           | 4.523                |                              |
| 4,200.00                                            | 4,198.26                    | 4,198.56                    | 4,198.56                    | 9.21                | 9.30             | 175.44                      | 0.34                                      | 49.97           | 92.43                        | 74.09                         | 18.34                           | 5.041                |                              |
| 4,300.00                                            | 4,297.40                    | 4,297.70                    | 4,297.70                    | 9.44                | 9.52             | 176.00                      | 0.34                                      | 49.97           | 105.45                       | 86.72                         | 18.73                           | 5.631                |                              |
| 4,400.00                                            | 4,396.43                    | 4,396.73                    | 4,396.73                    | 9.68                | 9.74             | 176.46                      | 0.34                                      | 49.97           | 119.34                       | 100.18                        | 19.16                           | 6.229                |                              |
| 4,500.00                                            | 4,495.46                    | 4,495.76                    | 4,495.76                    | 9.93                | 9.97             | 176.83                      | 0.34                                      | 49.97           | 133.23                       | 113.64                        | 19.59                           | 6.800                |                              |
| 4,600.00                                            | 4,594.48                    | 4,594.78                    | 4,594.78                    | 10.18               | 10.19            | 177.13                      | 0.34                                      | 49.97           | 147.13                       | 127.10                        | 20.03                           | 7.347                |                              |
| 4,700.00                                            | 4,693.51                    | 4,693.81                    | 4,693.81                    | 10.43               | 10.41            | 177.38                      | 0.34                                      | 49.97           | 161.03                       | 140.57                        | 20.46                           | 7.870                |                              |
| 4,800.00                                            | 4,792.54                    | 4,792.84                    | 4,792.84                    | 10.69               | 10.63            | 177.59                      | 0.34                                      | 49.97           | 174.93                       | 154.04                        | 20.90                           | 8.371                |                              |
| 4,900.00                                            | 4,891.56                    | 4,891.86                    | 4,891.86                    | 10.96               | 10.86            | 177.77                      | 0.34                                      | 49.97           | 188.84                       | 167.50                        | 21.34                           | 8.850                |                              |
| 5,000.00                                            | 4,990.59                    | 4,990.89                    | 4,990.89                    | 11.22               | 11.08            | 177.92                      | 0.34                                      | 49.97           | 202.75                       | 180.97                        | 21.78                           | 9.310                |                              |
| 5,100.00                                            | 5,089.62                    | 5,089.92                    | 5,089.92                    | 11.50               | 11.30            | 178.05                      | 0.34                                      | 49.97           | 216.66                       | 194.44                        | 22.22                           | 9.752                |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 95H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                              |                               |                                 |                      |         |                           |                           | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|---------------------------|---------------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                              |                               |                                 |                      |         |                           |                           | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning |                           |                           |                              |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |         | Offset<br>+N/-S<br>(usft) | Offset<br>+E/-W<br>(usft) |                              |
| 5,200.00                                            | 5,188.64                    | 5,188.94                    | 5,188.94                    | 11.77               | 11.52            | 178.17                      | 0.34                         | 49.97                         | 230.57                          | 207.91               | 22.66   | 10.175                    |                           |                              |
| 5,300.00                                            | 5,287.67                    | 5,287.97                    | 5,287.97                    | 12.05               | 11.75            | 178.27                      | 0.34                         | 49.97                         | 244.48                          | 221.38               | 23.10   | 10.582                    |                           |                              |
| 5,400.00                                            | 5,386.70                    | 5,387.00                    | 5,387.00                    | 12.33               | 11.97            | 178.37                      | 0.34                         | 49.97                         | 258.39                          | 234.84               | 23.55   | 10.974                    |                           |                              |
| 5,500.00                                            | 5,485.72                    | 5,486.02                    | 5,486.02                    | 12.62               | 12.19            | 178.45                      | 0.34                         | 49.97                         | 272.30                          | 248.31               | 23.99   | 11.350                    |                           |                              |
| 5,600.00                                            | 5,584.75                    | 5,585.05                    | 5,585.05                    | 12.91               | 12.41            | 178.53                      | 0.34                         | 49.97                         | 286.21                          | 261.78               | 24.44   | 11.712                    |                           |                              |
| 5,700.00                                            | 5,683.78                    | 5,684.08                    | 5,684.08                    | 13.20               | 12.64            | 178.59                      | 0.34                         | 49.97                         | 300.13                          | 275.24               | 24.88   | 12.061                    |                           |                              |
| 5,800.00                                            | 5,782.81                    | 5,783.11                    | 5,783.11                    | 13.49               | 12.86            | 178.66                      | 0.34                         | 49.97                         | 314.04                          | 288.71               | 25.33   | 12.398                    |                           |                              |
| 5,900.00                                            | 5,881.83                    | 5,882.13                    | 5,882.13                    | 13.78               | 13.08            | 178.71                      | 0.34                         | 49.97                         | 327.95                          | 302.18               | 25.78   | 12.722                    |                           |                              |
| 6,000.00                                            | 5,980.86                    | 5,981.16                    | 5,981.16                    | 14.08               | 13.30            | 178.77                      | 0.34                         | 49.97                         | 341.87                          | 315.64               | 26.23   | 13.035                    |                           |                              |
| 6,100.00                                            | 6,079.89                    | 6,080.19                    | 6,080.19                    | 14.38               | 13.53            | 178.81                      | 0.34                         | 49.97                         | 355.78                          | 329.11               | 26.68   | 13.337                    |                           |                              |
| 6,200.00                                            | 6,178.91                    | 6,179.21                    | 6,179.21                    | 14.67               | 13.75            | 178.86                      | 0.34                         | 49.97                         | 369.70                          | 342.57               | 27.13   | 13.628                    |                           |                              |
| 6,300.00                                            | 6,277.94                    | 6,278.24                    | 6,278.24                    | 14.98               | 13.97            | 178.90                      | 0.34                         | 49.97                         | 383.61                          | 356.03               | 27.58   | 13.910                    |                           |                              |
| 6,400.00                                            | 6,376.97                    | 6,377.27                    | 6,377.27                    | 15.28               | 14.20            | 178.94                      | 0.34                         | 49.97                         | 397.53                          | 369.50               | 28.03   | 14.183                    |                           |                              |
| 6,500.00                                            | 6,475.99                    | 6,476.29                    | 6,476.29                    | 15.58               | 14.42            | 178.97                      | 0.34                         | 49.97                         | 411.44                          | 382.96               | 28.48   | 14.446                    |                           |                              |
| 6,600.00                                            | 6,575.02                    | 6,575.32                    | 6,575.32                    | 15.89               | 14.64            | 179.01                      | 0.34                         | 49.97                         | 425.36                          | 396.42               | 28.93   | 14.701                    |                           |                              |
| 6,700.00                                            | 6,674.05                    | 6,674.35                    | 6,674.35                    | 16.20               | 14.86            | 179.04                      | 0.34                         | 49.97                         | 439.27                          | 409.89               | 29.39   | 14.948                    |                           |                              |
| 6,800.00                                            | 6,773.07                    | 6,773.37                    | 6,773.37                    | 16.50               | 15.09            | 179.07                      | 0.34                         | 49.97                         | 453.19                          | 423.35               | 29.84   | 15.187                    |                           |                              |
| 6,900.00                                            | 6,872.10                    | 6,872.40                    | 6,872.40                    | 16.81               | 15.31            | 179.10                      | 0.34                         | 49.97                         | 467.10                          | 436.81               | 30.29   | 15.419                    |                           |                              |
| 7,000.00                                            | 6,971.13                    | 6,971.43                    | 6,971.43                    | 17.12               | 15.53            | 179.12                      | 0.34                         | 49.97                         | 481.02                          | 450.27               | 30.75   | 15.644                    |                           |                              |
| 7,100.00                                            | 7,070.15                    | 7,070.45                    | 7,070.45                    | 17.44               | 15.75            | 179.15                      | 0.34                         | 49.97                         | 494.93                          | 463.73               | 31.20   | 15.862                    |                           |                              |
| 7,200.00                                            | 7,169.18                    | 7,169.48                    | 7,169.48                    | 17.75               | 15.98            | 179.17                      | 0.34                         | 49.97                         | 508.85                          | 477.19               | 31.66   | 16.074                    |                           |                              |
| 7,300.00                                            | 7,268.21                    | 7,268.51                    | 7,268.51                    | 18.06               | 16.20            | 179.19                      | 0.34                         | 49.97                         | 522.77                          | 490.65               | 32.11   | 16.279                    |                           |                              |
| 7,400.00                                            | 7,367.23                    | 7,367.53                    | 7,367.53                    | 18.38               | 16.42            | 179.21                      | 0.34                         | 49.97                         | 536.68                          | 504.11               | 32.57   | 16.478                    |                           |                              |
| 7,500.00                                            | 7,466.26                    | 7,466.56                    | 7,466.56                    | 18.69               | 16.64            | 179.23                      | 0.34                         | 49.97                         | 550.60                          | 517.57               | 33.03   | 16.672                    |                           |                              |
| 7,600.00                                            | 7,565.29                    | 7,565.59                    | 7,565.59                    | 19.01               | 16.87            | 179.25                      | 0.34                         | 49.97                         | 564.51                          | 531.03               | 33.48   | 16.860                    |                           |                              |
| 7,700.00                                            | 7,664.31                    | 7,664.61                    | 7,664.61                    | 19.32               | 17.09            | 179.27                      | 0.34                         | 49.97                         | 578.43                          | 544.49               | 33.94   | 17.043                    |                           |                              |
| 7,800.00                                            | 7,763.34                    | 7,763.64                    | 7,763.64                    | 19.64               | 17.31            | 179.29                      | 0.34                         | 49.97                         | 592.35                          | 557.95               | 34.40   | 17.221                    |                           |                              |
| 7,900.00                                            | 7,862.37                    | 7,862.67                    | 7,862.67                    | 19.96               | 17.53            | 179.30                      | 0.34                         | 49.97                         | 606.26                          | 571.41               | 34.85   | 17.395                    |                           |                              |
| 8,000.00                                            | 7,961.40                    | 7,961.70                    | 7,961.70                    | 20.28               | 17.76            | 179.32                      | 0.34                         | 49.97                         | 620.18                          | 584.87               | 35.31   | 17.563                    |                           |                              |
| 8,100.00                                            | 8,060.42                    | 8,060.72                    | 8,060.72                    | 20.60               | 17.98            | 179.33                      | 0.34                         | 49.97                         | 634.10                          | 598.33               | 35.77   | 17.727                    |                           |                              |
| 8,200.00                                            | 8,159.45                    | 8,159.75                    | 8,159.75                    | 20.92               | 18.20            | 179.35                      | 0.34                         | 49.97                         | 648.01                          | 611.78               | 36.23   | 17.887                    |                           |                              |
| 8,300.00                                            | 8,258.48                    | 8,258.78                    | 8,258.78                    | 21.24               | 18.42            | 179.36                      | 0.34                         | 49.97                         | 661.93                          | 625.24               | 36.69   | 18.043                    |                           |                              |
| 8,400.00                                            | 8,357.51                    | 8,357.80                    | 8,357.80                    | 21.56               | 18.65            | 179.38                      | 0.34                         | 49.97                         | 675.85                          | 638.70               | 37.15   | 18.194                    |                           |                              |
| 8,500.00                                            | 8,456.53                    | 8,456.83                    | 8,456.83                    | 21.88               | 18.87            | 179.39                      | 0.34                         | 49.97                         | 689.76                          | 652.16               | 37.60   | 18.342                    |                           |                              |
| 8,600.00                                            | 8,555.56                    | 8,555.86                    | 8,555.86                    | 22.20               | 19.09            | 179.40                      | 0.34                         | 49.97                         | 703.68                          | 665.61               | 38.06   | 18.486                    |                           |                              |
| 8,700.00                                            | 8,654.58                    | 8,654.88                    | 8,654.88                    | 22.53               | 19.31            | 179.41                      | 0.34                         | 49.97                         | 717.59                          | 679.07               | 38.52   | 18.627                    |                           |                              |
| 8,800.00                                            | 8,753.61                    | 8,753.91                    | 8,753.91                    | 22.85               | 19.54            | 179.42                      | 0.34                         | 49.97                         | 731.51                          | 692.53               | 38.98   | 18.764                    |                           |                              |
| 8,900.00                                            | 8,852.70                    | 8,853.00                    | 8,853.00                    | 23.14               | 19.76            | 179.43                      | 0.34                         | 49.97                         | 745.00                          | 705.54               | 39.45   | 18.884                    |                           |                              |
| 9,000.00                                            | 8,951.90                    | 8,952.20                    | 8,952.20                    | 23.39               | 19.98            | 179.44                      | 0.34                         | 49.97                         | 757.62                          | 717.72               | 39.90   | 18.990                    |                           |                              |
| 9,100.00                                            | 9,051.20                    | 9,051.50                    | 9,051.50                    | 23.63               | 20.21            | 179.45                      | 0.34                         | 49.97                         | 769.37                          | 729.03               | 40.34   | 19.073                    |                           |                              |
| 9,200.00                                            | 9,150.61                    | 9,150.91                    | 9,150.91                    | 23.87               | 20.43            | 179.46                      | 0.34                         | 49.97                         | 780.25                          | 739.48               | 40.78   | 19.134                    |                           |                              |
| 9,300.00                                            | 9,250.10                    | 9,250.40                    | 9,250.40                    | 24.10               | 20.65            | 179.47                      | 0.34                         | 49.97                         | 790.27                          | 749.06               | 41.22   | 19.174                    |                           |                              |
| 9,400.00                                            | 9,349.68                    | 9,349.98                    | 9,349.98                    | 24.33               | 20.88            | 179.48                      | 0.34                         | 49.97                         | 799.42                          | 757.77               | 41.65   | 19.193                    |                           |                              |
| 9,500.00                                            | 9,449.34                    | 9,449.64                    | 9,449.64                    | 24.55               | 21.10            | 179.48                      | 0.34                         | 49.97                         | 807.70                          | 765.62               | 42.08   | 19.193                    |                           |                              |
| 9,600.00                                            | 9,549.07                    | 9,549.37                    | 9,549.37                    | 24.76               | 21.32            | 179.49                      | 0.34                         | 49.97                         | 815.11                          | 772.60               | 42.51   | 19.174                    |                           |                              |
| 9,700.00                                            | 9,648.85                    | 9,649.15                    | 9,649.15                    | 24.97               | 21.55            | 179.49                      | 0.34                         | 49.97                         | 821.65                          | 778.72               | 42.94   | 19.136                    |                           |                              |
| 9,800.00                                            | 9,748.69                    | 9,748.99                    | 9,748.99                    | 25.17               | 21.77            | 179.49                      | 0.34                         | 49.97                         | 827.32                          | 783.96               | 43.36   | 19.080                    |                           |                              |
| 9,900.00                                            | 9,848.57                    | 9,848.87                    | 9,848.87                    | 25.36               | 22.00            | 179.50                      | 0.34                         | 49.97                         | 832.12                          | 788.34               | 43.78   | 19.007                    |                           |                              |
| 10,000.00                                           | 9,948.50                    | 9,948.80                    | 9,948.80                    | 25.55               | 22.22            | 179.50                      | 0.34                         | 49.97                         | 836.05                          | 791.85               | 44.20   | 18.916                    |                           |                              |
| 10,100.00                                           | 10,048.45                   | 10,048.75                   | 10,048.75                   | 25.74               | 22.45            | 179.50                      | 0.34                         | 49.97                         | 839.10                          | 794.49               | 44.61   | 18.810                    |                           |                              |
| 10,200.00                                           | 10,148.43                   | 10,148.73                   | 10,148.73                   | 25.91               | 22.67            | 179.50                      | 0.34                         | 49.97                         | 841.28                          | 796.26               | 45.02   | 18.687                    |                           |                              |
| 10,300.00                                           | 10,248.42                   | 10,248.72                   | 10,248.72                   | 26.08               | 22.90            | 179.50                      | 0.34                         | 49.97                         | 842.59                          | 797.16               | 45.43   | 18.548                    |                           |                              |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design      Seawolf 1-12 Fed - 95H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error:      0.00 usft |         |
|----------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|-----------------------------------|---------|
| Survey Program:      0-LEAM MWD-ADJ                      |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error:      0.00 usft |         |
| Reference                                                |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                                   | Warning |
| Measured Depth (usft)                                    | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                                   |         |
| 10,400.00                                                | 10,348.42             | 10,348.72             | 10,348.72             | 26.25            | 23.12         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 797.20                  | 45.83                     | 18.394            |                                   |         |
| 10,500.00                                                | 10,448.42             | 10,448.72             | 10,448.72             | 26.42            | 23.35         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 796.77                  | 46.25                     | 18.226            |                                   |         |
| 10,600.00                                                | 10,548.42             | 10,548.72             | 10,548.72             | 26.60            | 23.57         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 796.34                  | 46.69                     | 18.057            |                                   |         |
| 10,700.00                                                | 10,648.42             | 10,648.72             | 10,648.72             | 26.79            | 23.80         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 795.90                  | 47.12                     | 17.890            |                                   |         |
| 10,800.00                                                | 10,748.42             | 10,748.72             | 10,748.72             | 26.98            | 24.02         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 795.47                  | 47.56                     | 17.726            |                                   |         |
| 10,900.00                                                | 10,848.42             | 10,848.72             | 10,848.72             | 27.16            | 24.25         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 795.03                  | 47.99                     | 17.566            |                                   |         |
| 11,000.00                                                | 10,948.42             | 10,948.72             | 10,948.72             | 27.35            | 24.47         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 794.60                  | 48.43                     | 17.408            |                                   |         |
| 11,100.00                                                | 11,048.42             | 11,048.72             | 11,048.72             | 27.54            | 24.69         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 794.16                  | 48.86                     | 17.253            |                                   |         |
| 11,200.00                                                | 11,148.42             | 11,148.72             | 11,148.72             | 27.73            | 24.92         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 793.73                  | 49.30                     | 17.100            |                                   |         |
| 11,300.00                                                | 11,248.42             | 11,248.72             | 11,248.72             | 27.92            | 25.14         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 793.29                  | 49.74                     | 16.950            |                                   |         |
| 11,400.00                                                | 11,348.42             | 11,348.72             | 11,348.72             | 28.11            | 25.37         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 792.85                  | 50.17                     | 16.803            |                                   |         |
| 11,500.00                                                | 11,448.42             | 11,448.72             | 11,448.72             | 28.30            | 25.59         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 792.42                  | 50.61                     | 16.658            |                                   |         |
| 11,600.00                                                | 11,548.42             | 11,548.72             | 11,548.72             | 28.49            | 25.82         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 791.98                  | 51.05                     | 16.515            |                                   |         |
| 11,700.00                                                | 11,648.42             | 11,648.72             | 11,648.72             | 28.68            | 26.04         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 791.54                  | 51.48                     | 16.375            |                                   |         |
| 11,800.00                                                | 11,748.42             | 11,748.72             | 11,748.72             | 28.87            | 26.27         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 791.11                  | 51.92                     | 16.237            |                                   |         |
| 11,900.00                                                | 11,848.42             | 11,848.72             | 11,848.72             | 29.06            | 26.49         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 790.67                  | 52.36                     | 16.101            |                                   |         |
| 12,000.00                                                | 11,948.42             | 11,948.72             | 11,948.72             | 29.25            | 26.72         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 790.23                  | 52.79                     | 15.968            |                                   |         |
| 12,100.00                                                | 12,048.42             | 12,048.72             | 12,048.72             | 29.45            | 26.94         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 789.79                  | 53.23                     | 15.837            |                                   |         |
| 12,200.00                                                | 12,148.42             | 12,148.72             | 12,148.72             | 29.64            | 27.17         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 789.36                  | 53.67                     | 15.707            |                                   |         |
| 12,300.00                                                | 12,248.42             | 12,248.72             | 12,248.72             | 29.83            | 27.39         | 97.50                 | 0.34                                | 49.97        | 843.03                 | 788.92                  | 54.11                     | 15.580            |                                   |         |
| 12,400.00                                                | 12,348.41             | 12,346.32             | 12,346.32             | 30.03            | 27.61         | -82.94                | 0.22                                | 49.97        | 842.99                 | 788.46                  | 54.53                     | 15.459            |                                   |         |
| 12,500.00                                                | 12,447.13             | 12,428.45             | 12,427.87             | 30.18            | 27.75         | -83.22                | -8.68                               | 49.92        | 842.53                 | 787.72                  | 54.81                     | 15.371            |                                   |         |
| 12,600.00                                                | 12,540.62             | 12,511.24             | 12,507.30             | 30.31            | 27.88         | -83.74                | -31.65                              | 49.79        | 841.70                 | 786.63                  | 55.07                     | 15.285            |                                   |         |
| 12,700.00                                                | 12,624.80             | 12,595.13             | 12,582.52             | 30.43            | 28.01         | -84.50                | -68.54                              | 49.58        | 840.63                 | 785.30                  | 55.33                     | 15.193            |                                   |         |
| 12,800.00                                                | 12,695.99             | 12,680.60             | 12,651.32             | 30.56            | 28.14         | -85.48                | -119.05                             | 49.30        | 839.47                 | 783.83                  | 55.64                     | 15.087            |                                   |         |
| 12,900.00                                                | 12,751.07             | 12,768.19             | 12,711.34             | 30.70            | 28.33         | -86.63                | -182.68                             | 48.94        | 838.40                 | 782.35                  | 56.05                     | 14.959            |                                   |         |
| 13,000.00                                                | 12,787.65             | 12,858.48             | 12,759.99             | 30.89            | 28.57         | -87.92                | -258.58                             | 48.51        | 837.60                 | 781.02                  | 56.59                     | 14.803            |                                   |         |
| 13,100.00                                                | 12,804.11             | 12,952.12             | 12,794.44             | 31.17            | 28.88         | -89.31                | -345.50                             | 48.02        | 837.25                 | 779.96                  | 57.29                     | 14.615            |                                   |         |
| 13,114.88                                                | 12,804.95             | 12,966.42             | 12,798.17             | 31.22            | 28.94         | -89.51                | -359.30                             | 47.94        | 837.24                 | 779.82                  | 57.41                     | 14.582            |                                   |         |
| 13,200.00                                                | 12,805.05             | 13,050.48             | 12,811.66             | 31.54            | 29.30         | -90.43                | -442.15                             | 47.47        | 837.38                 | 779.20                  | 58.18                     | 14.394            |                                   |         |
| 13,300.00                                                | 12,805.12             | 13,150.96             | 12,813.04             | 32.02            | 29.82         | -90.52                | -542.60                             | 46.90        | 837.56                 | 778.30                  | 59.26                     | 14.134            |                                   |         |
| 13,400.00                                                | 12,805.20             | 13,250.96             | 12,813.20             | 32.60            | 30.43         | -90.53                | -642.60                             | 46.34        | 837.73                 | 777.21                  | 60.52                     | 13.842            |                                   |         |
| 13,500.00                                                | 12,805.27             | 13,350.96             | 12,813.36             | 33.27            | 31.13         | -90.53                | -742.60                             | 45.78        | 837.90                 | 775.93                  | 61.97                     | 13.521            |                                   |         |
| 13,600.00                                                | 12,805.34             | 13,450.96             | 12,813.51             | 34.03            | 31.92         | -90.54                | -842.60                             | 45.21        | 838.08                 | 774.48                  | 63.60                     | 13.178            |                                   |         |
| 13,700.00                                                | 12,805.41             | 13,550.96             | 12,813.67             | 34.88            | 32.79         | -90.54                | -942.59                             | 44.65        | 838.25                 | 772.86                  | 65.38                     | 12.820            |                                   |         |
| 13,800.00                                                | 12,805.48             | 13,650.96             | 12,813.83             | 35.79            | 33.74         | -90.55                | -1,042.59                           | 44.08        | 838.42                 | 771.10                  | 67.32                     | 12.454            |                                   |         |
| 13,900.00                                                | 12,805.56             | 13,750.96             | 12,813.98             | 36.78            | 34.75         | -90.56                | -1,142.59                           | 43.52        | 838.59                 | 769.20                  | 69.40                     | 12.084            |                                   |         |
| 14,000.00                                                | 12,805.63             | 13,850.96             | 12,814.14             | 37.83            | 35.83         | -90.56                | -1,242.59                           | 42.95        | 838.76                 | 767.17                  | 71.60                     | 11.715            |                                   |         |
| 14,100.00                                                | 12,805.70             | 13,950.96             | 12,814.30             | 38.94            | 36.97         | -90.57                | -1,342.59                           | 42.39        | 838.94                 | 765.03                  | 73.91                     | 11.351            |                                   |         |
| 14,200.00                                                | 12,805.77             | 14,050.96             | 12,814.46             | 40.10            | 38.16         | -90.57                | -1,442.58                           | 41.82        | 839.11                 | 762.78                  | 76.33                     | 10.993            |                                   |         |
| 14,300.00                                                | 12,805.85             | 14,150.96             | 12,814.61             | 41.31            | 39.40         | -90.58                | -1,542.58                           | 41.26        | 839.28                 | 760.44                  | 78.84                     | 10.645            |                                   |         |
| 14,400.00                                                | 12,805.92             | 14,250.96             | 12,814.77             | 42.57            | 40.69         | -90.58                | -1,642.58                           | 40.69        | 839.45                 | 758.01                  | 81.44                     | 10.308            |                                   |         |
| 14,500.00                                                | 12,805.99             | 14,350.96             | 12,814.93             | 43.86            | 42.01         | -90.59                | -1,742.58                           | 40.13        | 839.62                 | 755.51                  | 84.11                     | 9.982             |                                   |         |
| 14,600.00                                                | 12,806.06             | 14,450.96             | 12,815.08             | 45.19            | 43.37         | -90.60                | -1,842.58                           | 39.56        | 839.80                 | 752.94                  | 86.86                     | 9.669             |                                   |         |
| 14,700.00                                                | 12,806.13             | 14,550.96             | 12,815.24             | 46.55            | 44.76         | -90.60                | -1,942.58                           | 39.00        | 839.97                 | 750.30                  | 89.67                     | 9.368             |                                   |         |
| 14,800.00                                                | 12,806.21             | 14,650.96             | 12,815.40             | 47.95            | 46.18         | -90.61                | -2,042.57                           | 38.44        | 840.14                 | 747.61                  | 92.53                     | 9.079             |                                   |         |
| 14,900.00                                                | 12,806.28             | 14,750.96             | 12,815.56             | 49.37            | 47.63         | -90.61                | -2,142.57                           | 37.87        | 840.31                 | 744.86                  | 95.45                     | 8.803             |                                   |         |
| 15,000.00                                                | 12,806.35             | 14,850.96             | 12,815.71             | 50.82            | 49.11         | -90.62                | -2,242.57                           | 37.31        | 840.49                 | 742.07                  | 98.42                     | 8.540             |                                   |         |
| 15,100.00                                                | 12,806.42             | 14,950.96             | 12,815.87             | 52.29            | 50.60         | -90.62                | -2,342.57                           | 36.74        | 840.66                 | 739.23                  | 101.43                    | 8.288             |                                   |         |
| 15,200.00                                                | 12,806.49             | 15,050.96             | 12,816.03             | 53.78            | 52.12         | -90.63                | -2,442.57                           | 36.18        | 840.83                 | 736.35                  | 104.48                    | 8.047             |                                   |         |
| 15,300.00                                                | 12,806.57             | 15,150.96             | 12,816.18             | 55.29            | 53.66         | -90.63                | -2,542.56                           | 35.61        | 841.00                 | 733.43                  | 107.57                    | 7.818             |                                   |         |
| 15,400.00                                                | 12,806.64             | 15,250.96             | 12,816.34             | 56.82            | 55.21         | -90.64                | -2,642.56                           | 35.05        | 841.17                 | 730.48                  | 110.69                    | 7.599             |                                   |         |

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



# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design      Seawolf 1-12 Fed - 95H - OH - Plan #1 |                             |                             |                             |                     |                  |                              |                                           |                 |                              |                               |                                 |                      | Offset Site Error: | 0.00 usft |
|----------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|--------------------|-----------|
| Survey Program: 0-LEAM MWD-ADJ                           |                             |                             |                             |                     |                  |                              |                                           |                 |                              |                               |                                 |                      | Offset Well Error: | 0.00 usft |
| Reference                                                |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>('') | Distance                                  |                 |                              |                               |                                 |                      | Warning            |           |
| Measured<br>Depth<br>(usft)                              | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                              | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor |                    |           |
| 15,500.00                                                | 12,806.71                   | 15,350.96                   | 12,816.50                   | 58.37               | 56.78            | -90.65                       | -2,742.56                                 | 34.48           | 841.35                       | 727.50                        | 113.85                          | 7.390                |                    |           |
| 15,600.00                                                | 12,806.78                   | 15,450.96                   | 12,816.66                   | 59.93               | 58.36            | -90.65                       | -2,842.56                                 | 33.92           | 841.52                       | 724.49                        | 117.03                          | 7.191                |                    |           |
| 15,700.00                                                | 12,806.86                   | 15,550.96                   | 12,816.81                   | 61.51               | 59.96            | -90.66                       | -2,942.56                                 | 33.35           | 841.69                       | 721.46                        | 120.24                          | 7.000                |                    |           |
| 15,800.00                                                | 12,806.93                   | 15,650.96                   | 12,816.97                   | 63.10               | 61.57            | -90.66                       | -3,042.55                                 | 32.79           | 841.86                       | 718.40                        | 123.47                          | 6.819                |                    |           |
| 15,900.00                                                | 12,807.00                   | 15,750.96                   | 12,817.13                   | 64.70               | 63.19            | -90.67                       | -3,142.55                                 | 32.22           | 842.04                       | 715.32                        | 126.72                          | 6.645                |                    |           |
| 16,000.00                                                | 12,807.07                   | 15,850.95                   | 12,817.28                   | 66.31               | 64.82            | -90.67                       | -3,242.55                                 | 31.66           | 842.21                       | 712.21                        | 129.99                          | 6.479                |                    |           |
| 16,100.00                                                | 12,807.14                   | 15,950.95                   | 12,817.44                   | 67.93               | 66.47            | -90.68                       | -3,342.55                                 | 31.10           | 842.38                       | 709.09                        | 133.29                          | 6.320                |                    |           |
| 16,200.00                                                | 12,807.22                   | 16,050.95                   | 12,817.60                   | 69.57               | 68.12            | -90.69                       | -3,442.55                                 | 30.53           | 842.55                       | 705.95                        | 136.60                          | 6.168                |                    |           |
| 16,300.00                                                | 12,807.29                   | 16,150.95                   | 12,817.75                   | 71.21               | 69.78            | -90.69                       | -3,542.54                                 | 29.97           | 842.73                       | 702.80                        | 139.93                          | 6.023                |                    |           |
| 16,400.00                                                | 12,807.36                   | 16,250.95                   | 12,817.91                   | 72.86               | 71.44            | -90.70                       | -3,642.54                                 | 29.40           | 842.90                       | 699.63                        | 143.27                          | 5.883                |                    |           |
| 16,500.00                                                | 12,807.43                   | 16,350.95                   | 12,818.07                   | 74.52               | 73.12            | -90.70                       | -3,742.54                                 | 28.84           | 843.07                       | 696.44                        | 146.63                          | 5.750                |                    |           |
| 16,600.00                                                | 12,807.50                   | 16,450.95                   | 12,818.23                   | 76.19               | 74.80            | -90.71                       | -3,842.54                                 | 28.27           | 843.24                       | 693.25                        | 150.00                          | 5.622                |                    |           |
| 16,700.00                                                | 12,807.58                   | 16,550.95                   | 12,818.38                   | 77.86               | 76.49            | -90.71                       | -3,942.54                                 | 27.71           | 843.41                       | 690.04                        | 153.38                          | 5.499                |                    |           |
| 16,800.00                                                | 12,807.65                   | 16,650.95                   | 12,818.54                   | 79.54               | 78.18            | -90.72                       | -4,042.54                                 | 27.14           | 843.59                       | 686.82                        | 156.77                          | 5.381                |                    |           |
| 16,900.00                                                | 12,807.72                   | 16,750.95                   | 12,818.70                   | 81.22               | 79.88            | -90.73                       | -4,142.53                                 | 26.58           | 843.76                       | 683.58                        | 160.18                          | 5.268                |                    |           |
| 17,000.00                                                | 12,807.79                   | 16,850.95                   | 12,818.85                   | 82.91               | 81.58            | -90.73                       | -4,242.53                                 | 26.01           | 843.93                       | 680.34                        | 163.59                          | 5.159                |                    |           |
| 17,100.00                                                | 12,807.87                   | 16,950.95                   | 12,819.01                   | 84.61               | 83.29            | -90.74                       | -4,342.53                                 | 25.45           | 844.10                       | 677.09                        | 167.02                          | 5.054                |                    |           |
| 17,200.00                                                | 12,807.94                   | 17,050.95                   | 12,819.17                   | 86.31               | 85.01            | -90.74                       | -4,442.53                                 | 24.89           | 844.28                       | 673.83                        | 170.45                          | 4.953                |                    |           |
| 17,300.00                                                | 12,808.01                   | 17,150.95                   | 12,819.33                   | 88.02               | 86.73            | -90.75                       | -4,542.53                                 | 24.32           | 844.45                       | 670.56                        | 173.89                          | 4.856                |                    |           |
| 17,400.00                                                | 12,808.08                   | 17,250.95                   | 12,819.48                   | 89.73               | 88.45            | -90.75                       | -4,642.52                                 | 23.76           | 844.62                       | 667.28                        | 177.34                          | 4.763                |                    |           |
| 17,500.00                                                | 12,808.15                   | 17,350.95                   | 12,819.64                   | 91.45               | 90.17            | -90.76                       | -4,742.52                                 | 23.19           | 844.79                       | 664.00                        | 180.80                          | 4.673                |                    |           |
| 17,600.00                                                | 12,808.23                   | 17,450.95                   | 12,819.80                   | 93.16               | 91.90            | -90.76                       | -4,842.52                                 | 22.63           | 844.97                       | 660.70                        | 184.26                          | 4.586                |                    |           |
| 17,700.00                                                | 12,808.30                   | 17,550.95                   | 12,819.95                   | 94.89               | 93.64            | -90.77                       | -4,942.52                                 | 22.06           | 845.14                       | 657.40                        | 187.73                          | 4.502                |                    |           |
| 17,800.00                                                | 12,808.37                   | 17,650.95                   | 12,820.11                   | 96.61               | 95.37            | -90.78                       | -5,042.52                                 | 21.50           | 845.31                       | 654.10                        | 191.21                          | 4.421                |                    |           |
| 17,900.00                                                | 12,808.44                   | 17,750.95                   | 12,820.27                   | 98.34               | 97.11            | -90.78                       | -5,142.51                                 | 20.93           | 845.48                       | 650.79                        | 194.69                          | 4.343                |                    |           |
| 18,000.00                                                | 12,808.51                   | 17,850.95                   | 12,820.42                   | 100.08              | 98.86            | -90.79                       | -5,242.51                                 | 20.37           | 845.66                       | 647.47                        | 198.18                          | 4.267                |                    |           |
| 18,100.00                                                | 12,808.59                   | 17,950.95                   | 12,820.58                   | 101.81              | 100.60           | -90.79                       | -5,342.51                                 | 19.80           | 845.83                       | 644.15                        | 201.68                          | 4.194                |                    |           |
| 18,200.00                                                | 12,808.66                   | 18,050.95                   | 12,820.74                   | 103.55              | 102.35           | -90.80                       | -5,442.51                                 | 19.24           | 846.00                       | 640.82                        | 205.18                          | 4.123                |                    |           |
| 18,300.00                                                | 12,808.73                   | 18,150.95                   | 12,820.90                   | 105.29              | 104.10           | -90.80                       | -5,542.51                                 | 18.67           | 846.17                       | 637.49                        | 208.68                          | 4.055                |                    |           |
| 18,400.00                                                | 12,808.80                   | 18,250.95                   | 12,821.05                   | 107.04              | 105.85           | -90.81                       | -5,642.51                                 | 18.11           | 846.35                       | 634.16                        | 212.19                          | 3.989                |                    |           |
| 18,500.00                                                | 12,808.87                   | 18,350.95                   | 12,821.21                   | 108.78              | 107.61           | -90.81                       | -5,742.50                                 | 17.55           | 846.52                       | 630.81                        | 215.70                          | 3.924                |                    |           |
| 18,600.00                                                | 12,808.95                   | 18,450.95                   | 12,821.37                   | 110.53              | 109.37           | -90.82                       | -5,842.50                                 | 16.98           | 846.69                       | 627.47                        | 219.22                          | 3.862                |                    |           |
| 18,700.00                                                | 12,809.02                   | 18,550.95                   | 12,821.52                   | 112.28              | 111.13           | -90.83                       | -5,942.50                                 | 16.42           | 846.86                       | 624.12                        | 222.74                          | 3.802                |                    |           |
| 18,800.00                                                | 12,809.09                   | 18,650.95                   | 12,821.68                   | 114.04              | 112.89           | -90.83                       | -6,042.50                                 | 15.85           | 847.04                       | 620.77                        | 226.27                          | 3.744                |                    |           |
| 18,900.00                                                | 12,809.16                   | 18,750.95                   | 12,821.84                   | 115.79              | 114.65           | -90.84                       | -6,142.50                                 | 15.29           | 847.21                       | 617.41                        | 229.80                          | 3.687                |                    |           |
| 19,000.00                                                | 12,809.24                   | 18,850.95                   | 12,822.00                   | 117.55              | 116.42           | -90.84                       | -6,242.49                                 | 14.72           | 847.38                       | 614.05                        | 233.33                          | 3.632                |                    |           |
| 19,100.00                                                | 12,809.31                   | 18,950.95                   | 12,822.15                   | 119.31              | 118.18           | -90.85                       | -6,342.49                                 | 14.16           | 847.55                       | 610.69                        | 236.86                          | 3.578                |                    |           |
| 19,200.00                                                | 12,809.38                   | 19,050.95                   | 12,822.31                   | 121.07              | 119.95           | -90.85                       | -6,442.49                                 | 13.59           | 847.73                       | 607.32                        | 240.40                          | 3.526                |                    |           |
| 19,300.00                                                | 12,809.45                   | 19,150.95                   | 12,822.47                   | 122.84              | 121.72           | -90.86                       | -6,542.49                                 | 13.03           | 847.90                       | 603.95                        | 243.94                          | 3.476                |                    |           |
| 19,400.00                                                | 12,809.52                   | 19,250.95                   | 12,822.62                   | 124.60              | 123.49           | -90.86                       | -6,642.49                                 | 12.46           | 848.07                       | 600.58                        | 247.49                          | 3.427                |                    |           |
| 19,500.00                                                | 12,809.60                   | 19,350.95                   | 12,822.78                   | 126.37              | 125.27           | -90.87                       | -6,742.48                                 | 11.90           | 848.24                       | 597.21                        | 251.04                          | 3.379                |                    |           |
| 19,600.00                                                | 12,809.67                   | 19,450.95                   | 12,822.94                   | 128.13              | 127.04           | -90.88                       | -6,842.48                                 | 11.33           | 848.42                       | 593.83                        | 254.59                          | 3.333                |                    |           |
| 19,700.00                                                | 12,809.74                   | 19,550.95                   | 12,823.10                   | 129.90              | 128.81           | -90.88                       | -6,942.48                                 | 10.77           | 848.59                       | 590.45                        | 258.14                          | 3.287                |                    |           |
| 19,800.00                                                | 12,809.81                   | 19,650.95                   | 12,823.25                   | 131.67              | 130.59           | -90.89                       | -7,042.48                                 | 10.21           | 848.76                       | 587.07                        | 261.69                          | 3.243                |                    |           |
| 19,900.00                                                | 12,809.88                   | 19,750.95                   | 12,823.41                   | 133.45              | 132.37           | -90.89                       | -7,142.48                                 | 9.64            | 848.93                       | 583.68                        | 265.25                          | 3.201                |                    |           |
| 20,000.00                                                | 12,809.96                   | 19,850.95                   | 12,823.57                   | 135.22              | 134.15           | -90.90                       | -7,242.47                                 | 9.08            | 849.11                       | 580.30                        | 268.81                          | 3.159                |                    |           |
| 20,100.00                                                | 12,810.03                   | 19,950.95                   | 12,823.72                   | 136.99              | 135.93           | -90.90                       | -7,342.47                                 | 8.51            | 849.28                       | 576.91                        | 272.37                          | 3.118                |                    |           |
| 20,200.00                                                | 12,810.10                   | 20,050.95                   | 12,823.88                   | 138.77              | 137.71           | -90.91                       | -7,442.47                                 | 7.95            | 849.45                       | 573.52                        | 275.93                          | 3.078                |                    |           |
| 20,300.00                                                | 12,810.17                   | 20,150.95                   | 12,824.04                   | 140.55              | 139.49           | -90.91                       | -7,542.47                                 | 7.38            | 849.62                       | 570.13                        | 279.50                          | 3.040                |                    |           |
| 20,400.00                                                | 12,810.25                   | 20,250.95                   | 12,824.19                   | 142.32              | 141.28           | -90.92                       | -7,642.47                                 | 6.82            | 849.80                       | 566.73                        | 283.07                          | 3.002                |                    |           |
| 20,500.00                                                | 12,810.32                   | 20,350.95                   | 12,824.35                   | 144.10              | 143.06           | -90.93                       | -7,742.47                                 | 6.25            | 849.97                       | 563.33                        | 286.64                          | 2.965                |                    |           |
| 20,600.00                                                | 12,810.39                   | 20,450.95                   | 12,824.51                   | 145.88              | 144.84           | -90.93                       | -7,842.46                                 | 5.69            | 850.14                       | 559.94                        | 290.21                          | 2.929                |                    |           |

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

# LEAM Drilling Systems LLC

## Anticollision Report

Company: DEVON ENERGY  
 Project: Lea County, NM (NAD-83)  
 Reference Site: Seawolf 1-12 Fed  
 Site Error: 0.00 usft  
 Reference Well: 94H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 94H  
 TVD Reference: 3325.4' GE @ 3348.90usft  
 MD Reference: 3325.4' GE @ 3348.90usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at 2.00 sigma  
 Database: EDM 5000.1 Single User Db  
 Offset TVD Reference: Offset Datum

| Offset Design Seawolf 1-12 Fed - 95H - OH - Plan #1 |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Site Error: 0.00 usft |
|-----------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-LEAM MWD-ADJ                      |                             |                             |                             |                     |                  |                             |                                           |                 |                              |                               |                                 |                      | Offset Well Error: 0.00 usft |
| Reference                                           |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Distance                                  |                 | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                      |
| Measured<br>Depth<br>(usft)                         | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) |                              |                               |                                 |                      |                              |
| 20,700.00                                           | 12,810.46                   | 20,550.95                   | 12,824.67                   | 147.66              | 146.63           | -90.94                      | -7,942.46                                 | 5.12            | 850.32                       | 556.54                        | 293.78                          | 2.894                |                              |
| 20,800.00                                           | 12,810.53                   | 20,650.95                   | 12,824.82                   | 149.45              | 148.42           | -90.94                      | -8,042.46                                 | 4.56            | 850.49                       | 553.13                        | 297.35                          | 2.860                |                              |
| 20,900.00                                           | 12,810.61                   | 20,750.95                   | 12,824.98                   | 151.23              | 150.20           | -90.95                      | -8,142.46                                 | 4.00            | 850.66                       | 549.73                        | 300.93                          | 2.827                |                              |
| 21,000.00                                           | 12,810.68                   | 20,850.95                   | 12,825.14                   | 153.01              | 151.99           | -90.95                      | -8,242.46                                 | 3.43            | 850.83                       | 546.33                        | 304.51                          | 2.794                |                              |
| 21,100.00                                           | 12,810.75                   | 20,950.95                   | 12,825.29                   | 154.80              | 153.78           | -90.96                      | -8,342.45                                 | 2.87            | 851.01                       | 542.92                        | 308.09                          | 2.762                |                              |
| 21,200.00                                           | 12,810.82                   | 21,050.95                   | 12,825.45                   | 156.58              | 155.57           | -90.96                      | -8,442.45                                 | 2.30            | 851.18                       | 539.51                        | 311.67                          | 2.731                |                              |
| 21,300.00                                           | 12,810.89                   | 21,150.95                   | 12,825.61                   | 158.37              | 157.36           | -90.97                      | -8,542.45                                 | 1.74            | 851.35                       | 536.10                        | 315.25                          | 2.701                |                              |
| 21,400.00                                           | 12,810.97                   | 21,250.95                   | 12,825.77                   | 160.16              | 159.15           | -90.98                      | -8,642.45                                 | 1.17            | 851.52                       | 532.69                        | 318.83                          | 2.671                |                              |
| 21,500.00                                           | 12,811.04                   | 21,350.94                   | 12,825.92                   | 161.94              | 160.95           | -90.98                      | -8,742.45                                 | 0.61            | 851.70                       | 529.28                        | 322.42                          | 2.642                |                              |
| 21,600.00                                           | 12,811.11                   | 21,450.94                   | 12,826.08                   | 163.73              | 162.74           | -90.99                      | -8,842.44                                 | 0.04            | 851.87                       | 525.87                        | 326.00                          | 2.613                |                              |
| 21,700.00                                           | 12,811.18                   | 21,550.94                   | 12,826.24                   | 165.52              | 164.53           | -90.99                      | -8,942.44                                 | -0.52           | 852.04                       | 522.46                        | 329.59                          | 2.585                |                              |
| 21,800.00                                           | 12,811.26                   | 21,650.94                   | 12,826.39                   | 167.31              | 166.33           | -91.00                      | -9,042.44                                 | -1.09           | 852.22                       | 519.04                        | 333.17                          | 2.558                |                              |
| 21,900.00                                           | 12,811.33                   | 21,750.94                   | 12,826.55                   | 169.10              | 168.12           | -91.00                      | -9,142.44                                 | -1.65           | 852.39                       | 515.62                        | 336.76                          | 2.531                |                              |
| 22,000.00                                           | 12,811.40                   | 21,850.94                   | 12,826.71                   | 170.89              | 169.92           | -91.01                      | -9,242.44                                 | -2.22           | 852.56                       | 512.21                        | 340.35                          | 2.505                |                              |
| 22,100.00                                           | 12,811.47                   | 21,950.94                   | 12,826.87                   | 172.68              | 171.71           | -91.01                      | -9,342.43                                 | -2.78           | 852.73                       | 508.79                        | 343.94                          | 2.479                |                              |
| 22,200.00                                           | 12,811.54                   | 22,050.94                   | 12,827.02                   | 174.48              | 173.51           | -91.02                      | -9,442.43                                 | -3.34           | 852.91                       | 505.37                        | 347.54                          | 2.454                |                              |
| 22,300.00                                           | 12,811.62                   | 22,150.94                   | 12,827.18                   | 176.27              | 175.30           | -91.03                      | -9,542.43                                 | -3.91           | 853.08                       | 501.95                        | 351.13                          | 2.430                |                              |
| 22,400.00                                           | 12,811.69                   | 22,250.94                   | 12,827.34                   | 178.06              | 177.10           | -91.03                      | -9,642.43                                 | -4.47           | 853.25                       | 498.53                        | 354.72                          | 2.405                |                              |
| 22,500.00                                           | 12,811.76                   | 22,350.94                   | 12,827.49                   | 179.86              | 178.90           | -91.04                      | -9,742.43                                 | -5.04           | 853.42                       | 495.11                        | 358.32                          | 2.382                |                              |
| 22,600.00                                           | 12,811.83                   | 22,450.94                   | 12,827.65                   | 181.65              | 180.70           | -91.04                      | -9,842.43                                 | -5.60           | 853.60                       | 491.68                        | 361.91                          | 2.359                |                              |
| 22,700.00                                           | 12,811.90                   | 22,550.94                   | 12,827.81                   | 183.45              | 182.49           | -91.05                      | -9,942.42                                 | -6.17           | 853.77                       | 488.26                        | 365.51                          | 2.336                |                              |
| 22,800.00                                           | 12,811.98                   | 22,650.94                   | 12,827.96                   | 185.24              | 184.29           | -91.05                      | -10,042.42                                | -6.73           | 853.94                       | 484.83                        | 369.11                          | 2.314                |                              |
| 22,833.77                                           | 12,812.00                   | 22,673.56                   | 12,828.00                   | 185.86              | 184.70           | -91.05                      | -10,065.04                                | -6.86           | 854.07                       | 483.95                        | 370.12                          | 2.308 SF             |                              |



# LEAM Drilling Systems LLC

## Anticollision Report

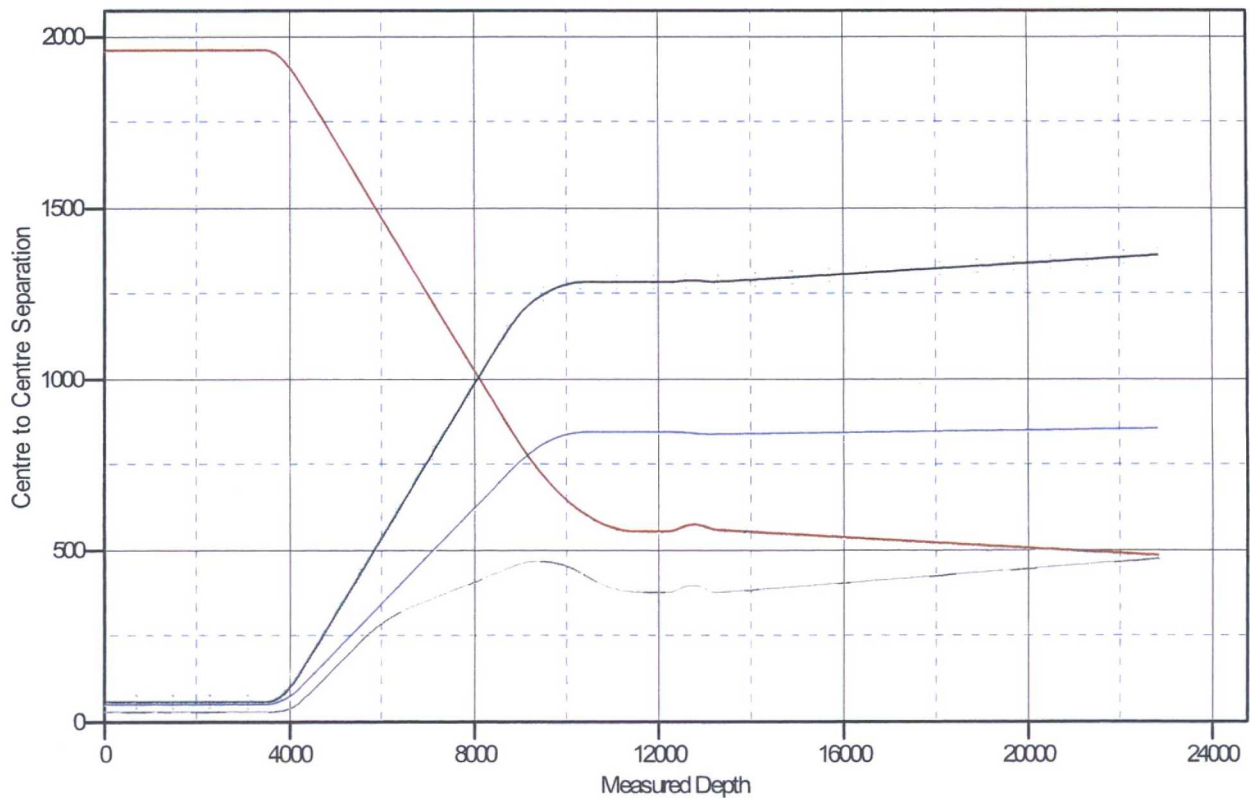
**Company:** DEVON ENERGY  
**Project:** Lea County, NM (NAD-83)  
**Reference Site:** Seawolf 1-12 Fed  
**Site Error:** 0.00 usft  
**Reference Well:** 94H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 94H  
**TVD Reference:** 3325.4' GE @ 3348.90usft  
**MD Reference:** 3325.4' GE @ 3348.90usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM 5000.1 Single User Db  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to 3325.4' GE @ 3348.90usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 94H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.43°

### Ladder Plot



### LEGEND

85H, OH, Plan #1 V0    84H, OH, Plan #1 V0  
 95H, OH, Plan #1 V0    86H, OH, Plan #1 V0

# LEAM Drilling Systems LLC

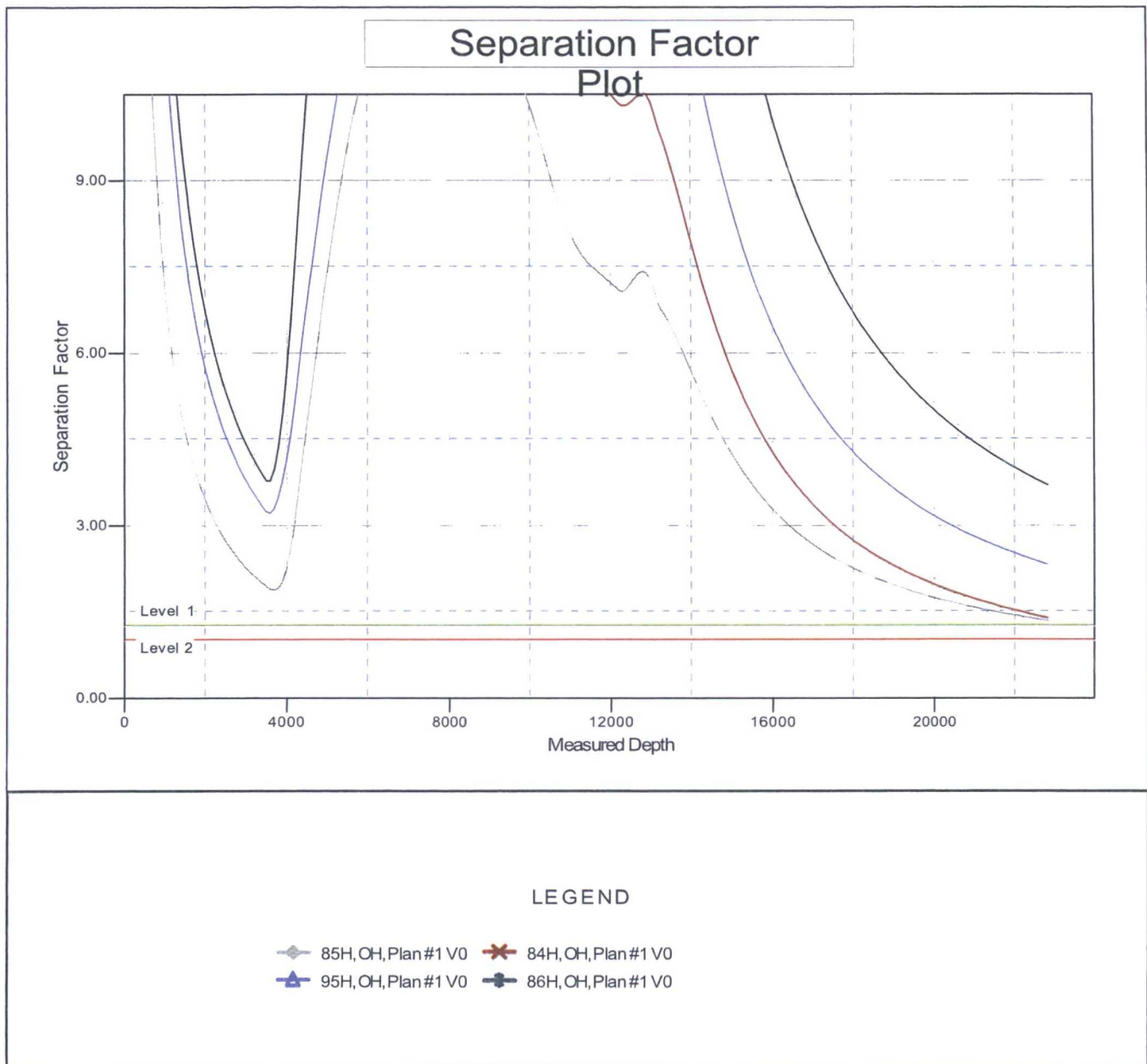
## Anticollision Report

Company: DEVON ENERGY  
Project: Lea County, NM (NAD-83)  
Reference Site: Seawolf 1-12 Fed  
Site Error: 0.00 usft  
Reference Well: 94H  
Well Error: 0.00 usft  
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Local Co-ordinate Reference: Well 94H  
TVD Reference: 3325.4' GE @ 3348.90usft  
MD Reference: 3325.4' GE @ 3348.90usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM 5000.1 Single User Db  
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3325.4' GE @ 3348.90usft  
Offset Depths are relative to Offset Datum  
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 94H  
Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
Grid Convergence at Surface is: 0.43°



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