

# **SandRidge Energy**

**North Park Basin**

**T7N-R80W-S16**

**Evans 0780 7-21H**

**Wellbore #1**

**Design #1**

## **Anticollision Summary Report**

**08 July, 2016**

# SandRidge Energy

## Anticollision Summary Report

|                           |                  |                                     |                       |
|---------------------------|------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | SandRidge Energy | <b>Local Co-ordinate Reference:</b> | Well Evans 0780 7-21H |
| <b>Project:</b>           | North Park Basin | <b>TVD Reference:</b>               | KB @ 8152.0usft       |
| <b>Reference Site:</b>    | T7N-R80W-S16     | <b>MD Reference:</b>                | KB @ 8152.0usft       |
| <b>Site Error:</b>        | 0.0 usft         | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | Evans 0780 7-21H | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.0 usft         | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1      | <b>Database:</b>                    | EDMProd               |
| <b>Reference Design:</b>  | Design #1        | <b>Offset TVD Reference:</b>        | Offset Datum          |

| Reference                    | Design #1   |                |   |                     |
|------------------------------|---|----------------|---|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                | WARNING: There is hidden tight data in this project |                     |
| Interpolation Method:        | Stations  | Error Model:   |   | ISCWSA              |
| Depth Range:                 | Unlimited   | Scan Method:   |   | Closest Approach 3D |
| Results Limited by:          | Maximum center-center distance of 10,000.0 usft                     | Error Surface: |   | Elliptical Conic    |
| Warning Levels Evaluated at: | 2.00 Sigma  | Casing Method: |   | Not applied         |

| Survey Tool Program |              | Date                    | 7/8/2016   |                               |  |
|---------------------|--------------|-------------------------|------------|-------------------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore)       | Tool Name  | Description                   |  |
| 0.0                 | 14,606.3     | Design #1 (Wellbore #1) | Sperry MWD | Fixed:v2:standard declination |  |

| Summary  |                                 |                              |                                 |                                  |                   |                     |
|--|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------------------|
| Site Name                                      | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning             |
| T7N-R80W-S16                                   |                                 |                              |                                 |                                  |                   |                     |
| Evans 0780 5-21H - Wellbore #1 - Design #1     | 7,435.8                         | 7,434.8                      | 29.0                            | -4.2                             | 0.875             | Level 1, CC, ES, SF |
| Evans 0780 6-21H - Wellbore #1 - Design #1     | 7,452.5                         | 7,454.3                      | 13.7                            | -19.5                            | 0.412             | Level 1, CC, ES, SF |
| Evans 0780 8-21H - Wellbore #1 - Design #1     | 2,600.0                         | 2,600.0                      | 15.0                            | 3.6                              | 1.313             | Level 3, CC         |
| Evans 0780 8-21H - Wellbore #1 - Design #1     | 2,700.0                         | 2,699.9                      | 15.4                            | 3.6                              | 1.300             | Level 3, ES, SF     |
| Ray Ranch 0780 5-16H - Wellbore #1 - Design #1 | 4,468.3                         | 4,472.1                      | 48.8                            | 29.2                             | 2.488             | CC, ES, SF          |
| Ray Ranch 0780 6-16H - Wellbore #1 - Design #1 | 4,782.4                         | 4,786.4                      | 4.7                             | -16.3                            | 0.224             | Level 1, CC, ES, SF |
| Ray Ranch 0780 7-16H - Wellbore #1 - Design #1 | 4,153.1                         | 4,155.0                      | 26.9                            | 8.7                              | 1.478             | Level 3, CC, ES     |
| Ray Ranch 0780 7-16H - Wellbore #1 - Design #1 | 8,550.0                         | 8,458.7                      | 63.0                            | 20.4                             | 1.478             | Level 3, SF         |
| Ray Ranch 0780 8-16H - Wellbore #1 - Design #1 | 2,835.9                         | 2,836.6                      | 22.6                            | 10.2                             | 1.826             | Level 4, CC, ES, SF |
| T7N-R80W-S21                                   |                                 |                              |                                 |                                  |                   |                     |
| Evans 0780 1-21H - Wellbore #1 - Design #1     | 7,477.9                         | 7,750.0                      | 1,861.8                         | 1,827.8                          | 54.867            | CC                  |
| Evans 0780 1-21H - Wellbore #1 - Design #1     | 14,606.3                        | 13,168.3                     | 2,048.2                         | 1,775.7                          | 7.514             | ES, SF              |
| Evans 0780 2-21H - Wellbore #1 - Design #1     | 7,423.3                         | 7,648.0                      | 2,194.0                         | 2,159.4                          | 63.293            | CC, ES              |
| Evans 0780 2-21H - Wellbore #1 - Design #1     | 14,606.3                        | 13,276.7                     | 2,708.3                         | 2,491.7                          | 12.502            | SF                  |
| Evans 0780 3-21H - Wellbore #1 - Design #1     | 4,900.0                         | 4,998.4                      | 2,346.6                         | 2,324.8                          | 107.264           | CC, ES              |
| Evans 0780 3-21H - Wellbore #1 - Design #1     | 14,606.3                        | 13,436.1                     | 3,371.0                         | 3,155.3                          | 15.630            | SF                  |
| Evans 0780 4-21H - Wellbore #1 - Design #1     | 4,400.0                         | 4,498.4                      | 2,360.8                         | 2,341.2                          | 120.133           | CC, ES              |
| Evans 0780 4-21H - Wellbore #1 - Design #1     | 14,606.3                        | 13,628.8                     | 4,015.6                         | 3,800.6                          | 18.671            | SF                  |
| Ray Ranch 0780 1-16H - Wellbore #1 - Design #1 | 7,500.0                         | 9,902.6                      | 1,575.1                         | 1,521.0                          | 29.082            | SF                  |
| Ray Ranch 0780 1-16H - Wellbore #1 - Design #1 | 7,619.3                         | 9,887.3                      | 1,561.6                         | 1,508.8                          | 29.588            | CC, ES              |
| Ray Ranch 0780 2-16H - Wellbore #1 - Design #1 | 7,589.3                         | 10,014.0                     | 2,222.2                         | 2,169.8                          | 42.364            | CC, ES              |
| Ray Ranch 0780 2-16H - Wellbore #1 - Design #1 | 12,900.0                        | 7,850.0                      | 3,976.7                         | 3,871.6                          | 37.846            | SF                  |
| Ray Ranch 0780 3-16H - Wellbore #1 - Design #1 | 2,400.0                         | 2,498.0                      | 2,419.6                         | 2,408.8                          | 225.111           | CC, ES              |
| Ray Ranch 0780 3-16H - Wellbore #1 - Design #1 | 13,900.0                        | 7,907.0                      | 4,958.3                         | 4,833.5                          | 39.729            | SF                  |
| Ray Ranch 0780 4-16H - Wellbore #1 - Design #1 | 2,400.0                         | 2,498.0                      | 2,430.7                         | 2,419.9                          | 226.143           | CC, ES              |
| Ray Ranch 0780 4-16H - Wellbore #1 - Design #1 | 14,606.3                        | 7,270.5                      | 6,017.2                         | 5,884.4                          | 45.330            | SF                  |

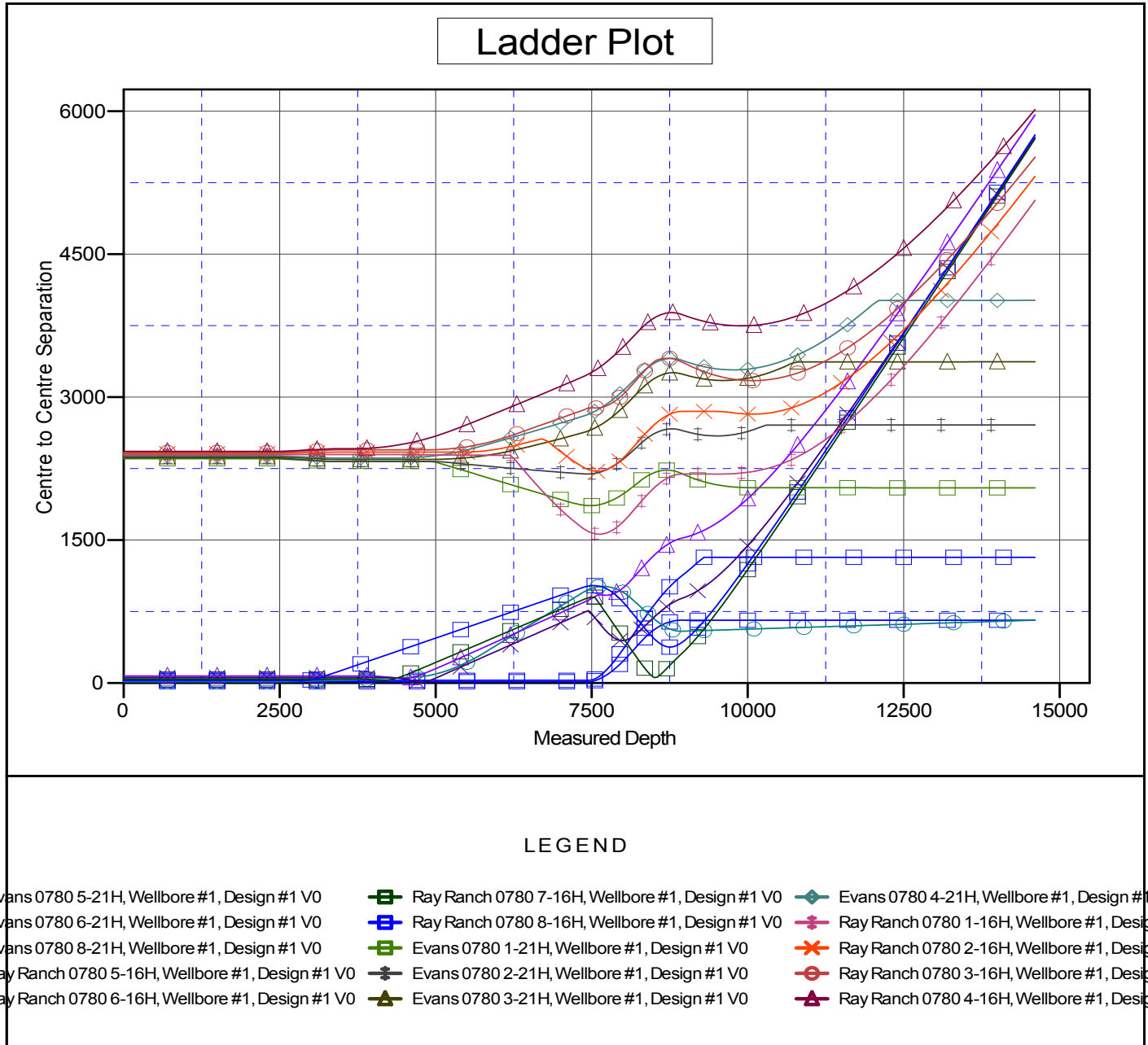
# SandRidge Energy

## Anticollision Summary Report

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| <b>Reference Wellbore</b> | Wellbore #1      | <b>Database:</b>                    | EDMProd               |
| <b>Reference Design:</b>  | Design #1        | <b>Offset TVD Reference:</b>        | Offset Datum          |

Reference Depths are relative to KB @ 8152.0usft  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Evans 0780 7-21H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: -0.57°



# SandRidge Energy

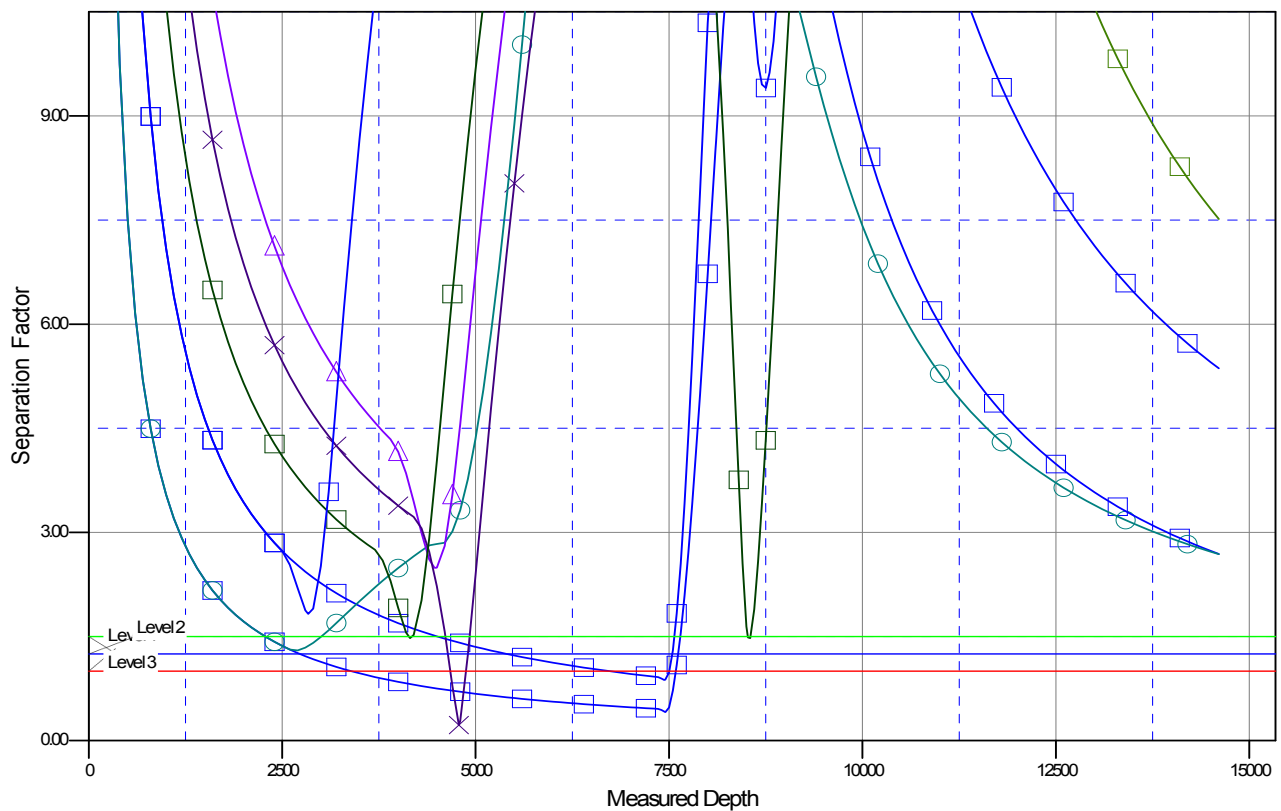
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Coordinate System is US State Plane 1983, Colorado Northern Zone  
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### Separation Factor Plot



### LEGEND

|   |   |   |
|---|---|---|
| Evans 0780 5-21H, Wellbore #1, Design #1 V0     | Ray Ranch 0780 7-16H, Wellbore #1, Design #1 V0 | Evans 0780 4-21H, Wellbore #1, Design #1 V0     |
| Evans 0780 6-21H, Wellbore #1, Design #1 V0     | Ray Ranch 0780 8-16H, Wellbore #1, Design #1 V0 | Ray Ranch 0780 1-16H, Wellbore #1, Design #1 V0 |
| Evans 0780 8-21H, Wellbore #1, Design #1 V0     | Evans 0780 1-21H, Wellbore #1, Design #1 V0     | Ray Ranch 0780 2-16H, Wellbore #1, Design #1 V0 |
| Ray Ranch 0780 5-16H, Wellbore #1, Design #1 V0 | Evans 0780 2-21H, Wellbore #1, Design #1 V0     | Ray Ranch 0780 3-16H, Wellbore #1, Design #1 V0 |
| Ray Ranch 0780 6-16H, Wellbore #1, Design #1 V0 | Evans 0780 3-21H, Wellbore #1, Design #1 V0     | Ray Ranch 0780 4-16H, Wellbore #1, Design #1 V0 |