

SandRidge Energy

North Park Basin

T7N-R80W-S16

Ray Ranch 0780 5-16H

Wellbore #1

Design #1

Anticollision Summary Report

08 July, 2016

SandRidge Energy

Anticollision Summary Report

| | | | |
|---------------------------|----------------------|-------------------------------------|---------------------------|
| Company: | SandRidge Energy | Local Co-ordinate Reference: | Well Ray Ranch 0780 5-16H |
| Project: | North Park Basin | TVD Reference: | KB @ 8152.0usft |
| Reference Site: | T7N-R80W-S16 | MD Reference: | KB @ 8152.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | Ray Ranch 0780 5-16H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDMProd |
| Reference Design: | Design #1 | Offset TVD Reference: | 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 (usft) | To (usft) | Survey (Wellbore) |
| 0.0 | 12,289.1 | Design #1 (Wellbore #1) |
| | | Tool Name |
| | | Sperry MWD |
| | | Description |
| | | 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 | 4,577.4 | 4,571.1 | 68.3 | 48.2 | 3.394 | CC, ES |
| Evans 0780 5-21H - Wellbore #1 - Design #1 | 4,600.0 | 4,593.1 | 68.5 | 48.3 | 3.388 | SF |
| Evans 0780 6-21H - Wellbore #1 - Design #1 | 4,527.0 | 4,524.0 | 58.6 | 38.7 | 2.943 | CC, ES, SF |
| Evans 0780 7-21H - Wellbore #1 - Design #1 | 4,472.1 | 4,468.3 | 48.8 | 29.2 | 2.484 | CC, ES, SF |
| Evans 0780 8-21H - Wellbore #1 - Design #1 | 3,060.1 | 3,060.2 | 58.8 | 45.4 | 4.386 | CC |
| Evans 0780 8-21H - Wellbore #1 - Design #1 | 3,400.0 | 3,400.0 | 59.6 | 44.7 | 4.003 | ES |
| Evans 0780 8-21H - Wellbore #1 - Design #1 | 4,100.0 | 4,099.4 | 64.6 | 46.7 | 3.608 | SF |
| Ray Ranch 0780 6-16H - Wellbore #1 - Design #1 | 4,155.5 | 4,155.2 | 9.8 | -8.6 | 0.533 | Level 1, CC, ES, SF |
| Ray Ranch 0780 7-16H - Wellbore #1 - Design #1 | 3,700.0 | 3,700.0 | 30.0 | 13.6 | 1.832 | Level 4, CC, ES, SF |
| Ray Ranch 0780 8-16H - Wellbore #1 - Design #1 | 2,500.0 | 2,500.0 | 45.0 | 34.0 | 4.099 | CC, ES |
| Ray Ranch 0780 8-16H - Wellbore #1 - Design #1 | 2,600.0 | 2,598.9 | 46.2 | 34.8 | 4.048 | SF |
| T7N-R80W-S21 | | | | | | |
| Evans 0780 1-21H - Wellbore #1 - Design #1 | 7,751.0 | 7,773.7 | 944.2 | 909.6 | 27.276 | CC, ES, SF |
| Evans 0780 2-21H - Wellbore #1 - Design #1 | 7,783.3 | 7,750.0 | 1,291.5 | 1,254.9 | 35.330 | CC, ES |
| Evans 0780 2-21H - Wellbore #1 - Design #1 | 7,850.0 | 7,779.3 | 1,294.0 | 1,257.4 | 35.291 | SF |
| Evans 0780 3-21H - Wellbore #1 - Design #1 | 7,527.2 | 7,187.9 | 1,792.7 | 1,757.1 | 50.383 | CC |
| Evans 0780 3-21H - Wellbore #1 - Design #1 | 7,550.0 | 7,209.9 | 1,792.9 | 1,757.1 | 50.094 | ES |
| Evans 0780 3-21H - Wellbore #1 - Design #1 | 7,850.0 | 7,505.1 | 1,828.7 | 1,791.0 | 48.437 | SF |
| Evans 0780 4-21H - Wellbore #1 - Design #1 | 7,520.1 | 7,128.1 | 1,963.0 | 1,928.2 | 56.390 | CC, ES |
| Evans 0780 4-21H - Wellbore #1 - Design #1 | 7,800.0 | 7,404.8 | 1,991.7 | 1,955.3 | 54.632 | SF |
| Ray Ranch 0780 1-16H - Wellbore #1 - Design #1 | 8,559.2 | 9,790.2 | 703.4 | 647.0 | 12.473 | CC |
| Ray Ranch 0780 1-16H - Wellbore #1 - Design #1 | 12,289.1 | 13,507.9 | 719.1 | 544.0 | 4.107 | ES, SF |
| Ray Ranch 0780 2-16H - Wellbore #1 - Design #1 | 8,879.1 | 10,222.7 | 1,356.2 | 1,293.6 | 21.667 | CC |
| Ray Ranch 0780 2-16H - Wellbore #1 - Design #1 | 12,289.1 | 13,632.5 | 1,357.4 | 1,178.4 | 7.581 | ES, SF |
| Ray Ranch 0780 3-16H - Wellbore #1 - Design #1 | 7,499.0 | 7,030.6 | 2,014.4 | 1,982.1 | 62.337 | CC |
| Ray Ranch 0780 3-16H - Wellbore #1 - Design #1 | 12,289.1 | 13,888.6 | 2,016.7 | 1,838.4 | 11.307 | ES, SF |
| Ray Ranch 0780 4-16H - Wellbore #1 - Design #1 | 6,745.3 | 6,159.8 | 2,393.0 | 2,362.9 | 79.549 | CC |
| Ray Ranch 0780 4-16H - Wellbore #1 - Design #1 | 7,000.0 | 6,405.5 | 2,393.9 | 2,362.1 | 75.375 | ES |
| Ray Ranch 0780 4-16H - Wellbore #1 - Design #1 | 12,289.1 | 13,820.6 | 2,660.9 | 2,484.3 | 15.072 | SF |

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

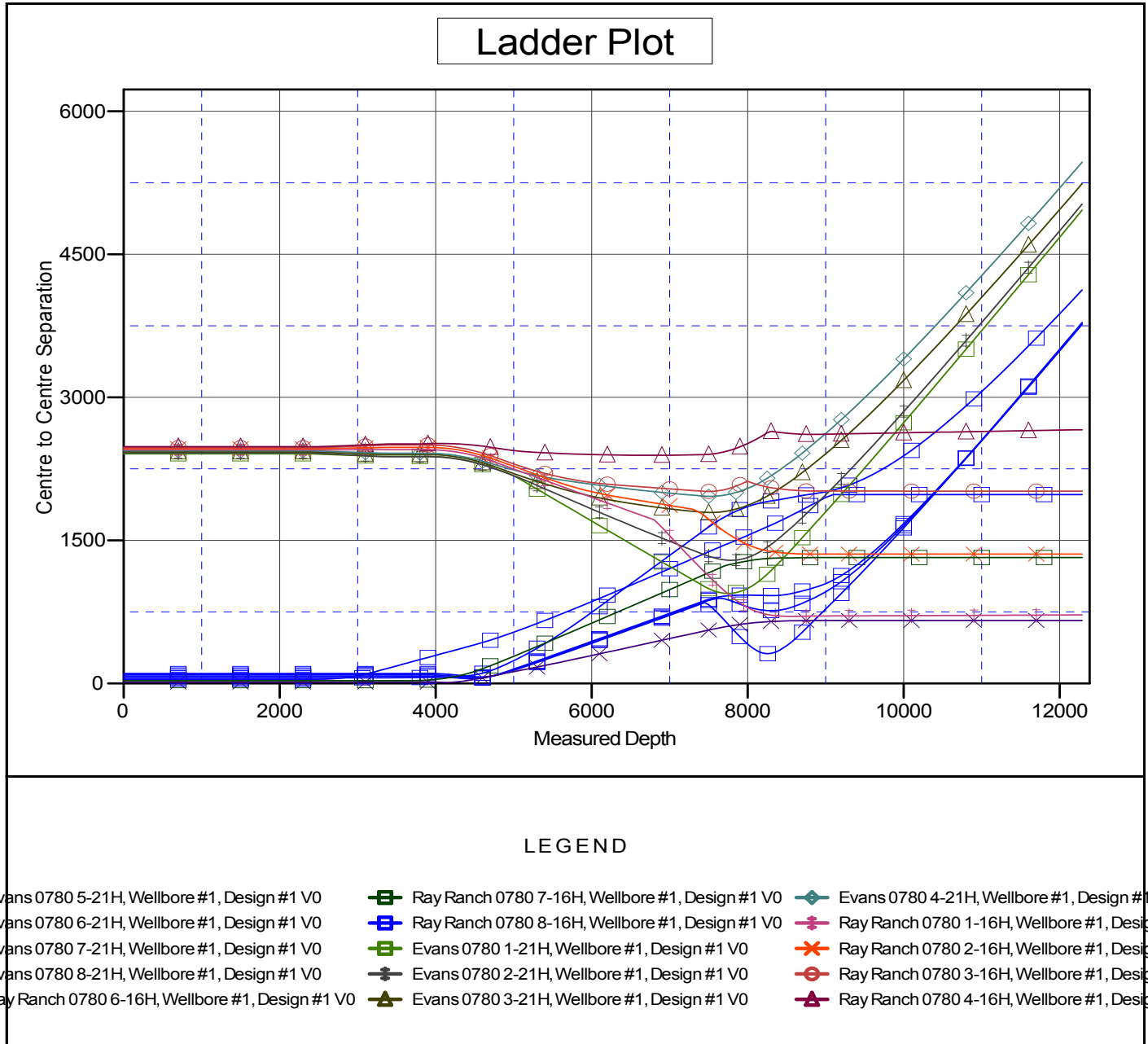
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| Reference Design: | Design #1 | Offset TVD Reference: | Offset Datum |

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: Ray Ranch 0780 5-16H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.57°



SandRidge Energy

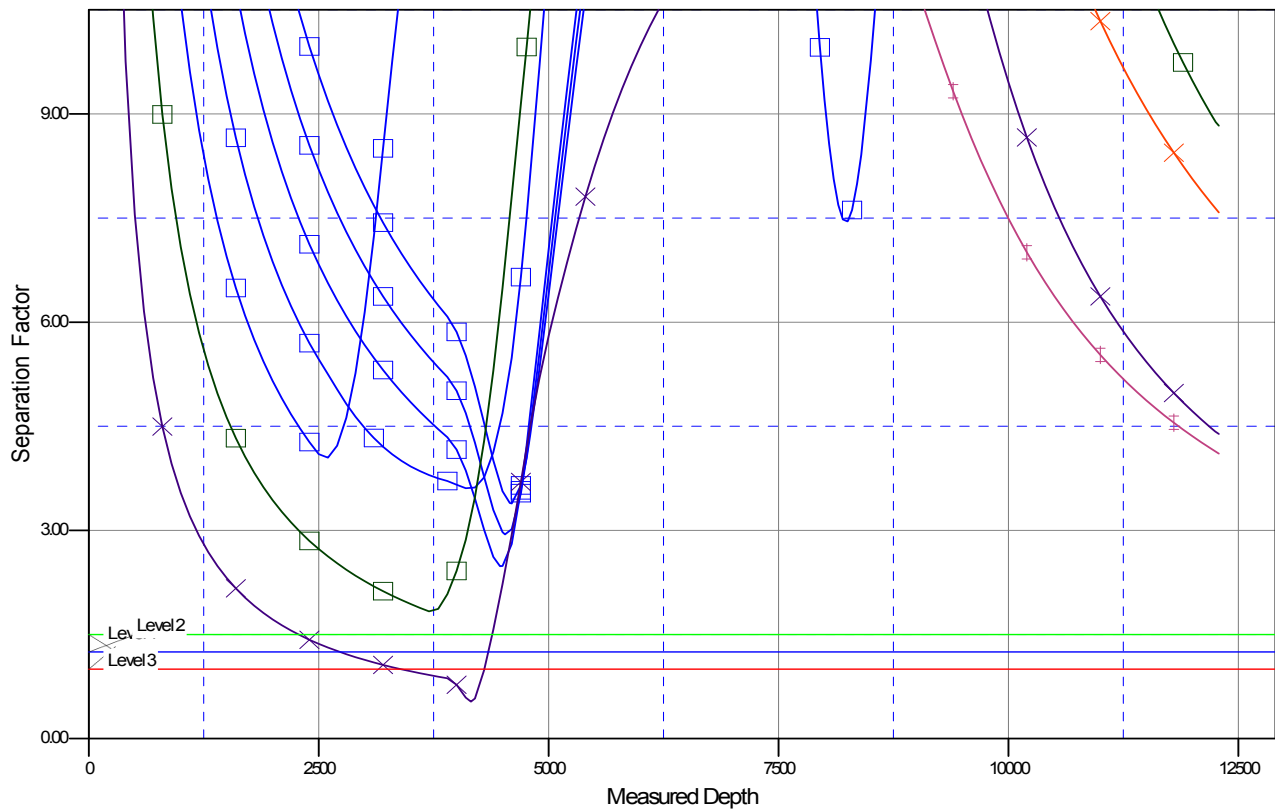
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Separation Factor Plot



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