

SandRidge Energy

North Park Basin

T8N-R81W-S7

Hebron 0781 2-12H

Wellbore #1

Design #1

Anticollision Summary Report

08 December, 2016

SandRidge Energy

Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Hebron 0781 2-12H
Project:	North Park Basin	TVD Reference:	KB @ 8146.0usft
Reference Site:	T8N-R81W-S7	MD Reference:	KB @ 8146.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Hebron 0781 2-12H	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	9/29/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,414.2	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination

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						
T8N-R81W-S7						
Grizzly 0881 1-1H36 - Wellbore #1 - Design #1	3,963.4	3,958.7	135.8	118.2	7.726	CC, ES
Grizzly 0881 1-1H36 - Wellbore #1 - Design #1	4,100.0	4,091.5	139.6	121.3	7.655	SF
Grizzly 0881 2-1H36 - Wellbore #1 - Design #1	4,389.6	4,373.9	86.6	66.7	4.361	CC
Grizzly 0881 2-1H36 - Wellbore #1 - Design #1	4,400.0	4,384.0	86.6	66.7	4.353	ES, SF
Grizzly 0881 3-1H36 - Wellbore #1 - Design #1	6,700.0	6,580.0	142.6	111.4	4.575	SF
Grizzly 0881 3-1H36 - Wellbore #1 - Design #1	6,724.6	6,593.4	141.4	110.8	4.624	CC, ES
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	2,500.0	2,500.0	153.0	142.0	13.937	CC
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	2,600.0	2,599.1	153.3	141.9	13.433	ES
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	2,900.0	2,894.1	159.8	147.1	12.584	SF
Hebron 0781 1-12H - Wellbore #1 - Design #1	3,350.0	3,350.0	15.0	0.2	1.013	Level 2, CC, ES, SF
Hebron 0781 4-12H - Wellbore #1 - Design #1	3,200.0	3,200.0	15.0	0.9	1.061	Level 2, CC, ES, SF
Hebron 0781 5-12H - Wellbore #1 - Design #1	2,800.0	2,800.0	30.1	17.7	2.440	CC, ES, SF
Hebron 3-12H - Wellbore #1 - Wellbore #1	5,831.8	5,776.0	238.7	206.4	7.384	CC, ES
Hebron 3-12H - Wellbore #1 - Wellbore #1	5,900.0	5,825.3	241.2	208.4	7.367	SF

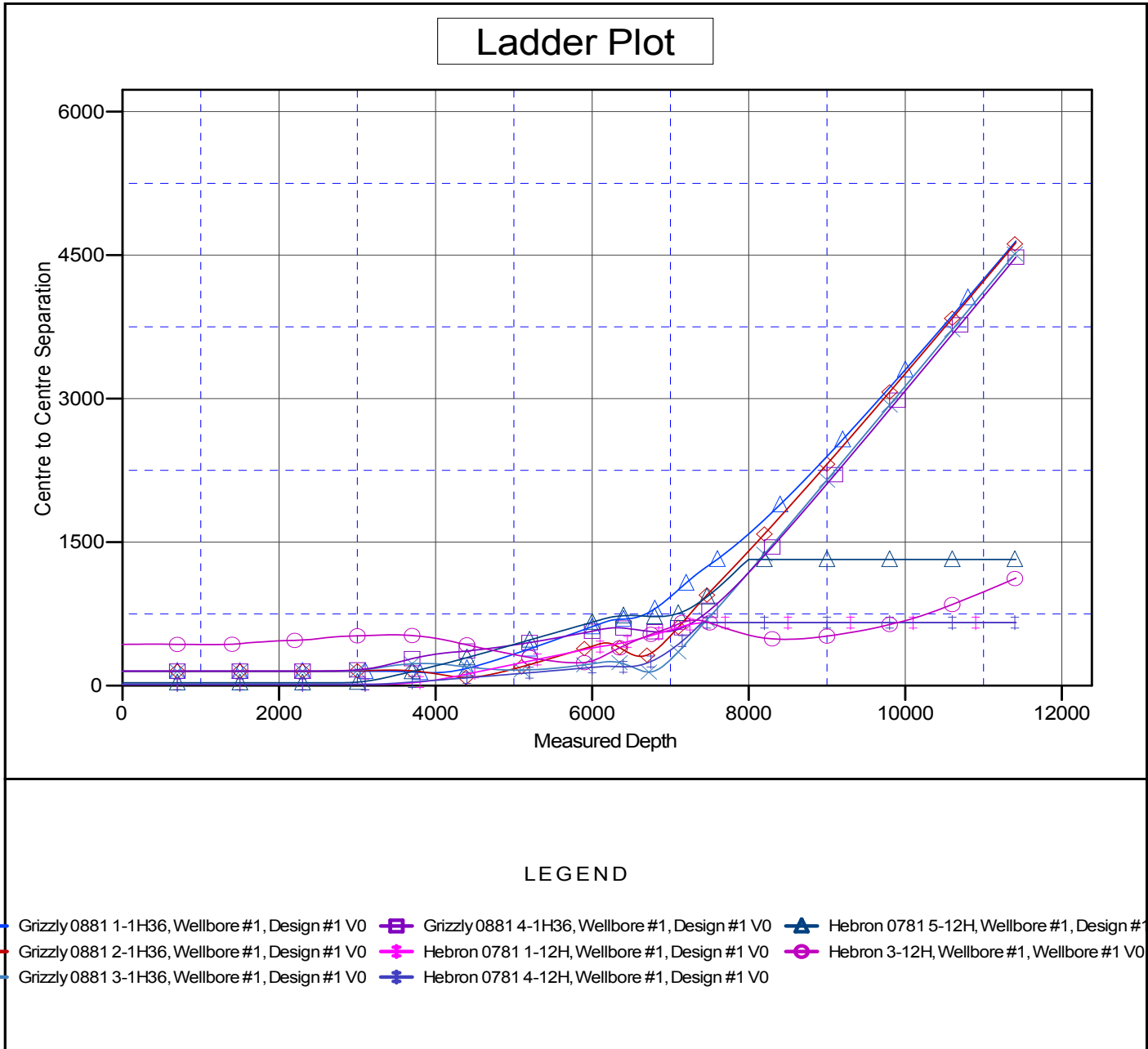
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Reference Design: Design #1	Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 8146.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Hebron 0781 2-12H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: -0.60°



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

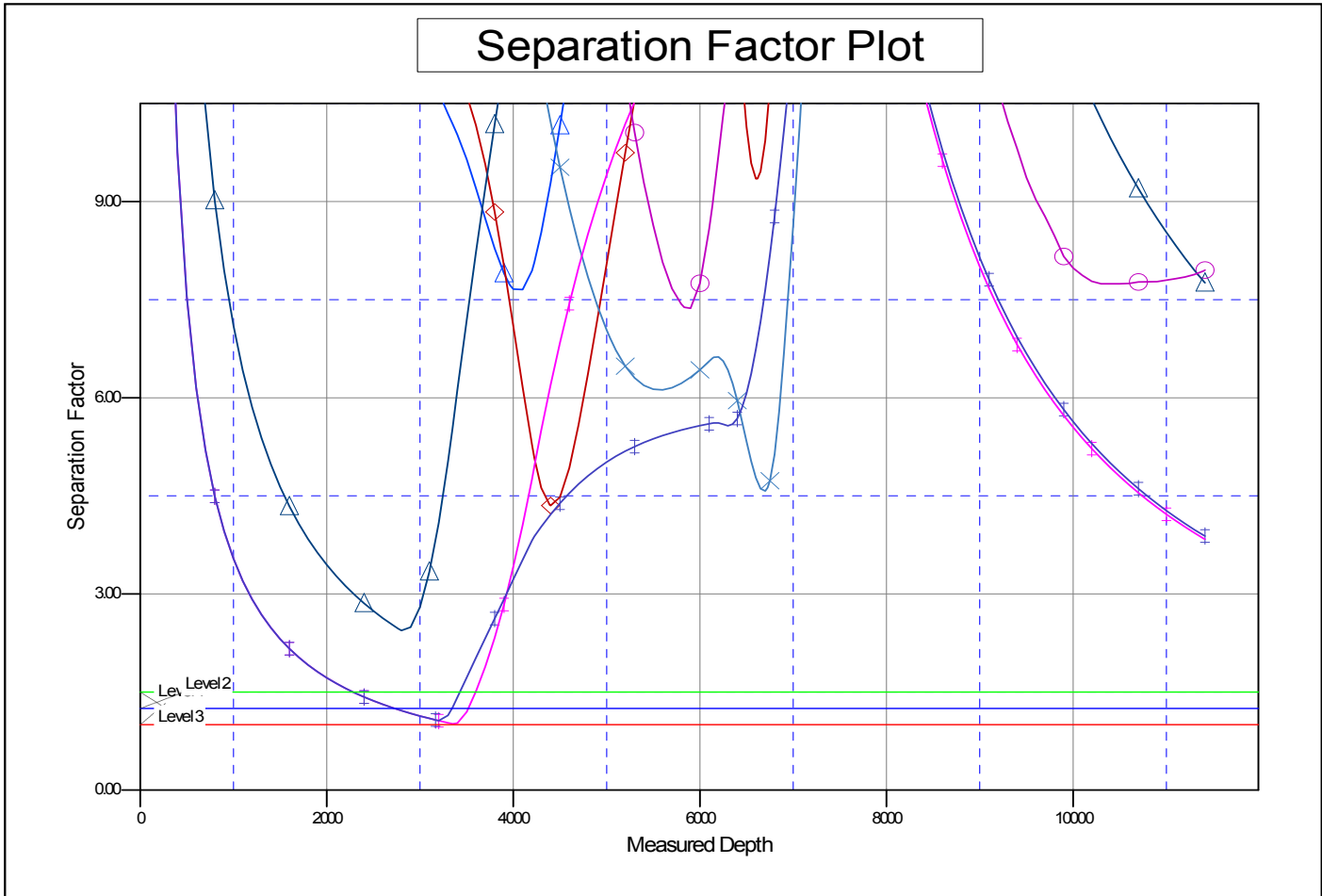
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LEGEND

- ▲ Grizzly 0881 1-1H36, Wellbore #1, Design #1 V0
 ■ Grizzly 0881 4-1H36, Wellbore #1, Design #1 V0
▲ Hebron 0781 5-12H, Wellbore #1, Design #1 V0
- ▲ Grizzly 0881 2-1H36, Wellbore #1, Design #1 V0
 ■ Hebron 0781 1-12H, Wellbore #1, Design #1 V0
○ Hebron 3-12H, Wellbore #1, Wellbore #1 V0
- ▲ Grizzly 0881 3-1H36, Wellbore #1, Design #1 V0
 ■ Hebron 0781 4-12H, Wellbore #1, Design #1 V0