

SandRidge Energy

North Park Basin

T7N-R80W-S18

Hebron 0780 9-18H

Wellbore #1

Design #1

Anticollision Summary Report

07 July, 2016

SandRidge Energy

Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Hebron 0780 9-18H
Project:	North Park Basin	TVD Reference:	WELL @ 8223.8usft (Original Well Elev)
Reference Site:	T7N-R80W-S18	MD Reference:	WELL @ 8223.8usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Hebron 0780 9-18H	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	7/7/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,925.0	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-S18						
Coalmont 0780 1-13H - Wellbore #1 - Design #1	2,700.0	2,698.2	172.3	160.4	14.509	CC, ES
Coalmont 0780 1-13H - Wellbore #1 - Design #1	3,000.0	2,999.7	180.3	167.3	13.797	SF
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,700.0	2,698.2	180.2	168.3	15.176	CC, ES
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,900.0	2,895.5	185.9	173.2	14.682	SF
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,600.0	2,598.2	188.9	177.5	16.536	CC, ES
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,800.0	2,792.0	193.2	180.9	15.774	SF
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,500.0	2,498.2	198.4	187.4	18.076	CC, ES
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,800.0	2,784.3	209.5	197.3	17.149	SF
Hebron 01-18H - Wellbore #1 - Wellbore #1	11,925.0	6,498.0	708.9	619.4	7.921	CC, ES, SF
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,500.0	2,499.8	15.0	4.0	1.368	Level 3, CC, ES, SF
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,845.7	6,775.1	1,050.2	946.1	10.090	CC
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,900.0	6,753.0	1,051.3	946.1	9.992	ES
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,925.0	6,737.0	1,052.6	946.8	9.954	SF
Hebron 0780 6-18H - Wellbore #1 - Design #1	2,700.0	2,700.0	44.7	32.9	3.767	CC, ES, SF
Hebron 0780 7-18H - Wellbore #1 - Design #1	2,700.0	2,700.0	29.9	18.0	2.519	CC, ES, SF
Hebron 0780 8-18H - Wellbore #1 - Design #1	2,700.0	2,700.0	15.0	3.2	1.266	Level 3, CC, ES, SF
Hebron 1-18HR - Wellbore #1 - Wellbore #1	11,925.0	6,542.7	432.2	328.8	4.180	CC, ES, SF
Hebron 5-18H - Wellbore #1 - Wellbore #1	11,196.9	7,371.7	232.9	183.2	4.690	CC
Hebron 5-18H - Wellbore #1 - Wellbore #1	11,800.0	6,718.6	280.7	182.6	2.861	ES, SF

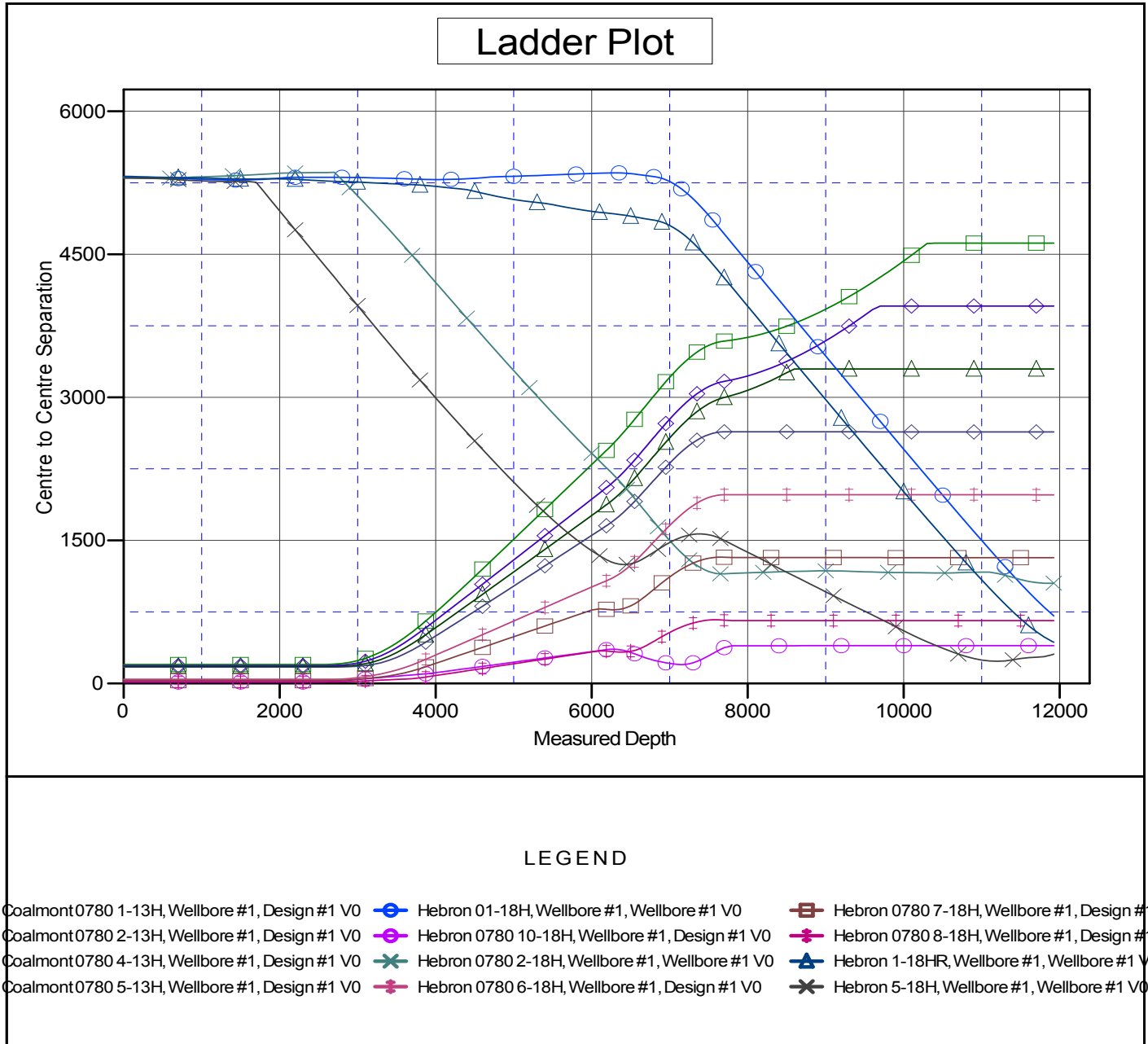
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Reference Depths are relative to WELL @ 8223.8usft (Original Well Ele)
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Hebron 0780 9-18H
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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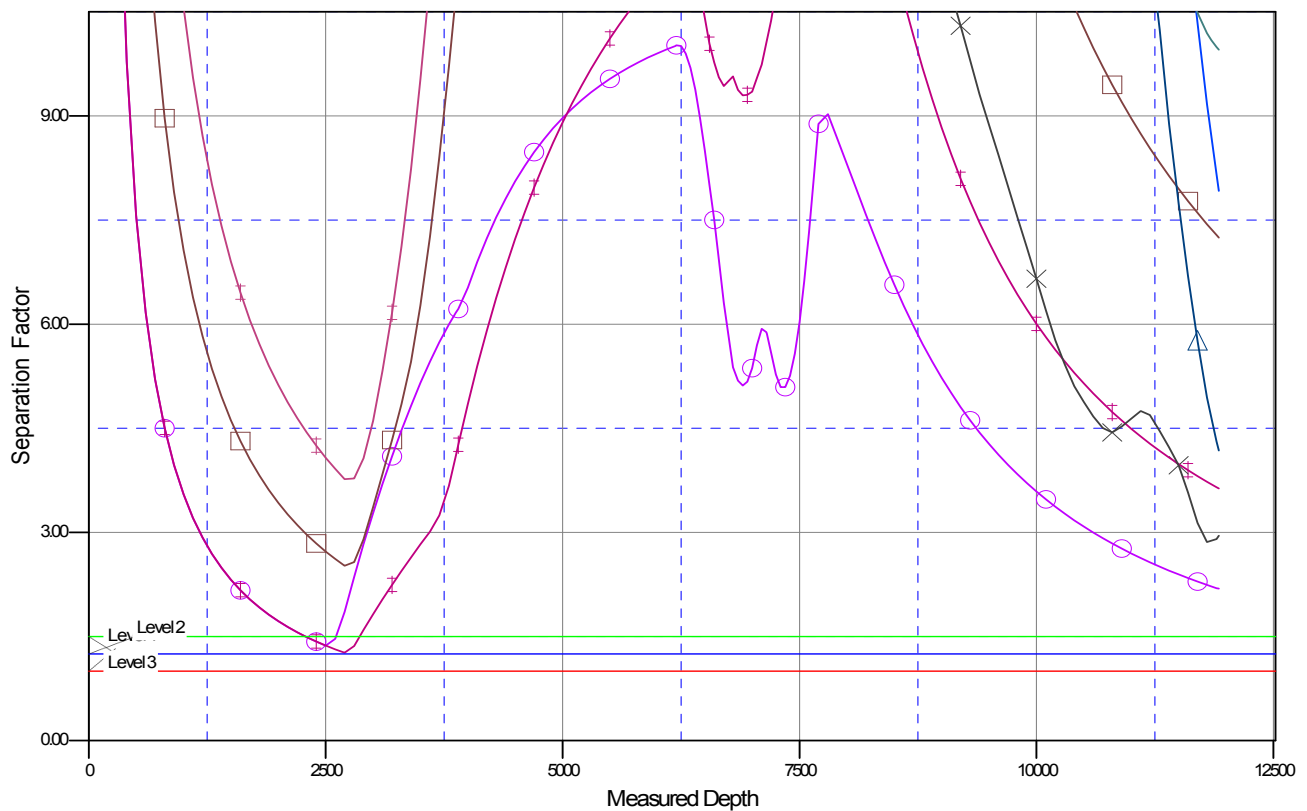
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Separation Factor Plot



LEGEND

- Coalmont0780 1-13H, Wellbore #1, Design #1 V0
- Coalmont0780 2-13H, Wellbore #1, Design #1 V0
- Coalmont0780 4-13H, Wellbore #1, Design #1 V0
- Coalmont0780 5-13H, Wellbore #1, Design #1 V0
- Hebron 01-18H, Wellbore #1, Wellbore #1 V0
- Hebron 0780 10-18H, Wellbore #1, Design #1 V0
- Hebron 0780 2-18H, Wellbore #1, Wellbore #1 V0
- Hebron 0780 6-18H, Wellbore #1, Design #1 V0
- Hebron 0780 7-18H, Wellbore #1, Design #1 V0
- Hebron 0780 8-18H, Wellbore #1, Design #1 V0
- Hebron 1-18HR, Wellbore #1, Wellbore #1 V0
- Hebron 5-18H, Wellbore #1, Wellbore #1 V0