

SandRidge Energy

North Park Basin

T7N-R80W-S18

Hebron 0780 10-18H

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 10-18H
Project:	North Park Basin	TVD Reference:	WELL @ 8223.6usft (Original Well Elev)
Reference Site:	T7N-R80W-S18	MD Reference:	WELL @ 8223.6usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Hebron 0780 10-18H	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	11,950.9	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
Offset Well - Wellbore - Design						
T7N-R80W-S18						
Coalmont 0780 1-13H - Wellbore #1 - Design #1	2,500.0	2,498.4	180.3	169.3	16.426	CC, ES
Coalmont 0780 1-13H - Wellbore #1 - Design #1	2,800.0	2,797.9	189.3	177.0	15.454	SF
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,500.0	2,498.4	189.0	178.1	17.226	CC, ES
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,800.0	2,796.0	199.3	187.1	16.308	SF
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,500.0	2,498.4	198.5	187.5	18.087	CC, ES
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,700.0	2,694.7	203.9	192.1	17.279	SF
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,500.0	2,498.4	208.6	197.6	19.008	CC, ES
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,600.0	2,593.6	210.9	199.5	18.527	SF
Hebron 01-18H - Wellbore #1 - Wellbore #1	11,950.9	6,518.6	530.9	461.8	7.680	CC, ES, SF
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,895.4	6,755.4	653.7	549.8	6.291	CC
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,900.0	6,753.4	653.7	549.7	6.284	ES
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,950.9	6,737.0	655.6	550.4	6.233	SF
Hebron 0780 6-18H - Wellbore #1 - Design #1	2,500.0	2,500.2	59.8	48.8	5.443	CC, ES
Hebron 0780 6-18H - Wellbore #1 - Design #1	2,600.0	2,600.2	61.5	50.1	5.390	SF
Hebron 0780 7-18H - Wellbore #1 - Design #1	2,500.0	2,500.2	44.9	33.9	4.092	CC, ES
Hebron 0780 7-18H - Wellbore #1 - Design #1	2,600.0	2,600.2	46.7	35.3	4.091	SF
Hebron 0780 8-18H - Wellbore #1 - Design #1	2,500.0	2,500.2	30.0	19.1	2.737	CC, ES, SF
Hebron 0780 9-18H - Wellbore #1 - Design #1	2,500.0	2,500.2	15.0	4.0	1.368	Level 3, CC, ES, SF
Hebron 1-18HR - Wellbore #1 - Wellbore #1	11,950.9	6,543.3	202.7	148.8	3.760	CC, ES, SF
Hebron 5-18H - Wellbore #1 - Wellbore #1	11,883.4	6,586.0	99.6	-0.3	0.997	Level 1, CC, ES, SF

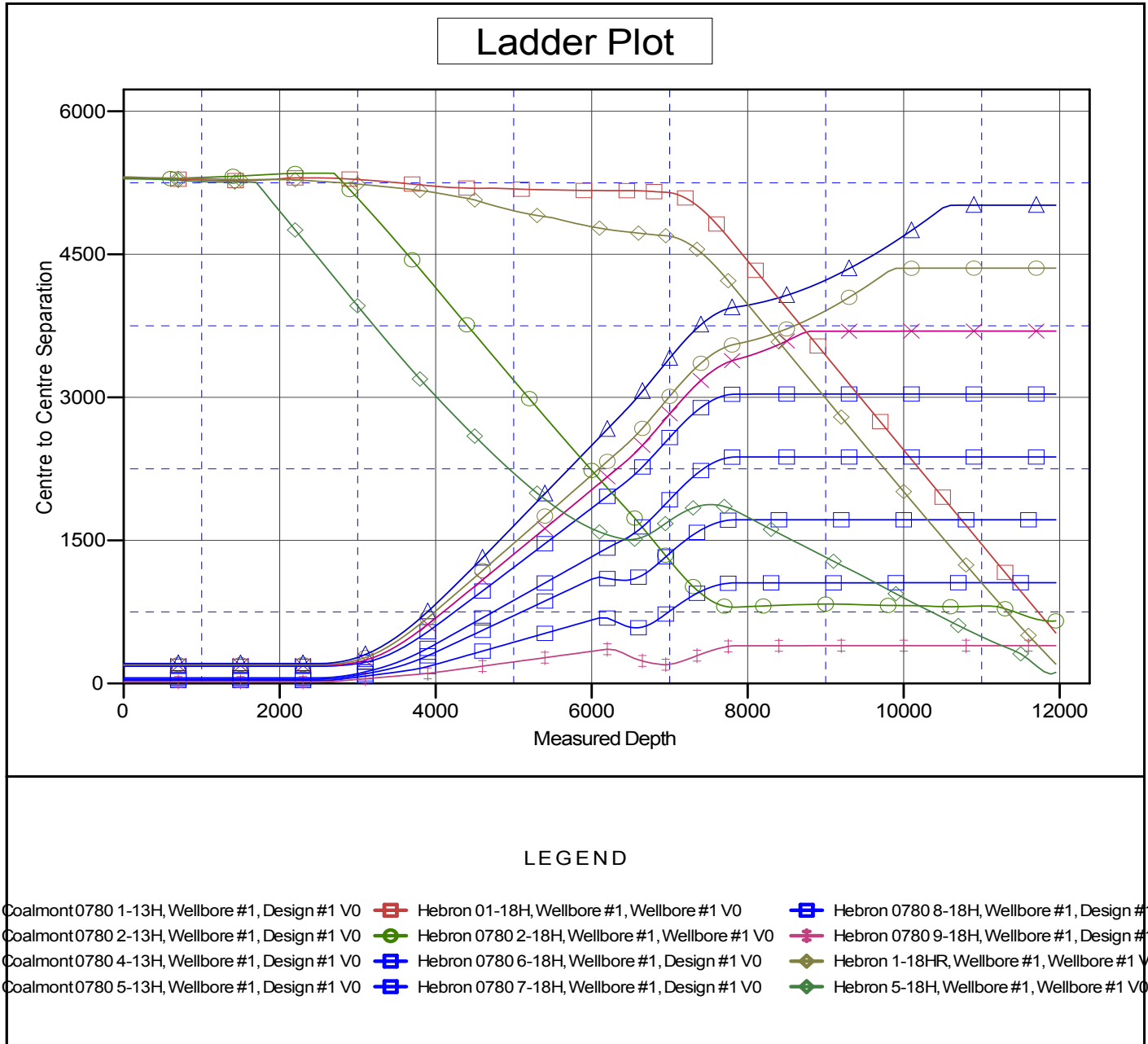
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Reference Depths are relative to WELL @ 8223.6usft (Original Well Ele)
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Hebron 0780 10-18H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.60°



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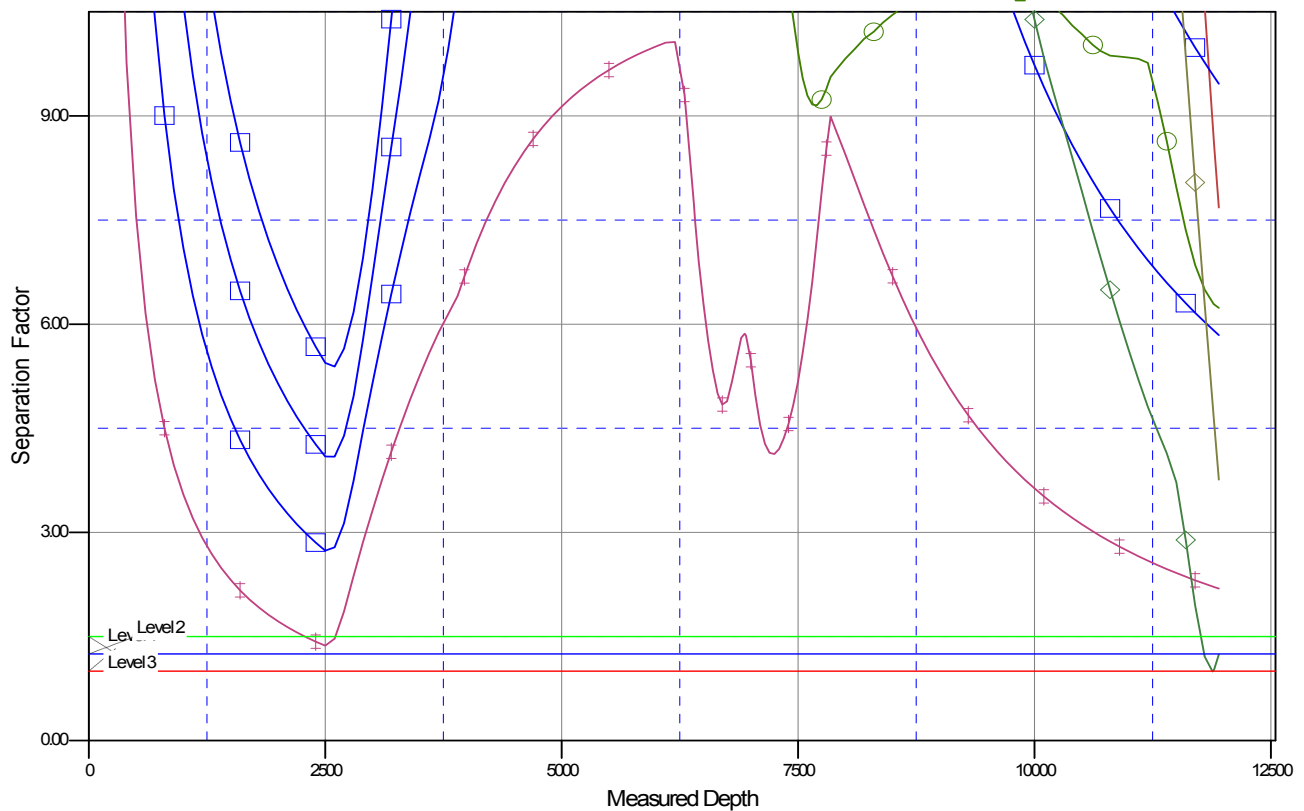
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Separation Factor Plot



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 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 0780 9-18H, Wellbore #1, Design #1 V0
- Hebron 1-18HR, Wellbore #1, Wellbore #1 V0
- Hebron 5-18H, Wellbore #1, Wellbore #1 V0