

# **SandRidge Energy**

**North Park Basin**

**T7N-R80W-S18**

**Coalmont 0781 2-13H**

**Wellbore #1**

**Design #1**

## **Anticollision Summary Report**

**15 July, 2016**

# SandRidge Energy

## Anticollision Summary Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Coalmont 0781 2-13H
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Reference Site:</b>	T7N-R80W-S18	<b>MD Reference:</b>	WELL @ 8222.0usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Coalmont 0781 2-13H	<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	7/7/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,438.3	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
Offset Well - Wellbore - Design						
T7N-R80W-S18						
Coalmont 0781 1-13H - Wellbore #1 - Design #1	2,700.0	2,700.0	15.1	3.2	1.271	Level 3, CC, ES, SF
Coalmont 0781 4-13H - Wellbore #1 - Design #1	2,600.0	2,600.0	15.0	3.5	1.310	Level 3, CC, ES, SF
Coalmont 0781 5-13H - Wellbore #1 - Design #1	2,500.0	2,500.0	29.8	18.8	2.716	CC, ES, SF
Hebron 01-18H - Wellbore #1 - Wellbore #1	11,438.3	6,447.1	3,815.3	3,723.4	41.534	CC, ES, SF
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,466.1	2,467.7	189.0	178.2	17.457	CC
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,500.0	2,500.0	189.0	178.1	17.221	ES
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,800.0	2,789.0	199.0	186.8	16.280	SF
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	5,965.2	11,630.0	4,061.4	3,959.4	39.848	SF
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	6,042.8	11,630.0	4,058.9	3,957.8	40.135	CC, ES
Hebron 0780 6-18H - Wellbore #1 - Design #1	2,976.7	2,978.1	159.3	146.2	12.210	CC
Hebron 0780 6-18H - Wellbore #1 - Design #1	3,000.0	3,000.0	159.3	146.1	12.123	ES
Hebron 0780 6-18H - Wellbore #1 - Design #1	11,438.3	11,338.4	1,319.6	1,133.5	7.089	SF
Hebron 0780 7-18H - Wellbore #1 - Design #1	2,772.4	2,774.2	165.4	153.2	13.568	CC
Hebron 0780 7-18H - Wellbore #1 - Design #1	2,900.0	2,900.0	165.5	152.8	13.015	ES
Hebron 0780 7-18H - Wellbore #1 - Design #1	11,438.3	11,389.7	1,979.2	1,795.2	10.759	SF
Hebron 0780 8-18H - Wellbore #1 - Design #1	2,700.0	2,701.8	172.3	160.4	14.503	CC
Hebron 0780 8-18H - Wellbore #1 - Design #1	2,800.0	2,800.0	172.5	160.1	14.014	ES
Hebron 0780 8-18H - Wellbore #1 - Design #1	3,000.0	2,992.7	179.0	165.9	13.687	SF
Hebron 0780 9-18H - Wellbore #1 - Design #1	2,666.1	2,667.9	180.2	168.5	15.363	CC
Hebron 0780 9-18H - Wellbore #1 - Design #1	2,700.0	2,700.0	180.2	168.3	15.172	ES
Hebron 0780 9-18H - Wellbore #1 - Design #1	2,900.0	2,893.4	185.8	173.1	14.673	SF
Hebron 1-18HR - Wellbore #1 - Wellbore #1	11,438.3	6,501.9	3,688.2	3,582.6	34.925	CC, ES, SF
Hebron 5-18H - Wellbore #1 - Wellbore #1	6,499.5	11,360.0	1,517.6	1,438.0	19.057	CC, ES
Hebron 5-18H - Wellbore #1 - Wellbore #1	7,300.0	11,360.0	1,670.6	1,569.8	16.571	SF

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

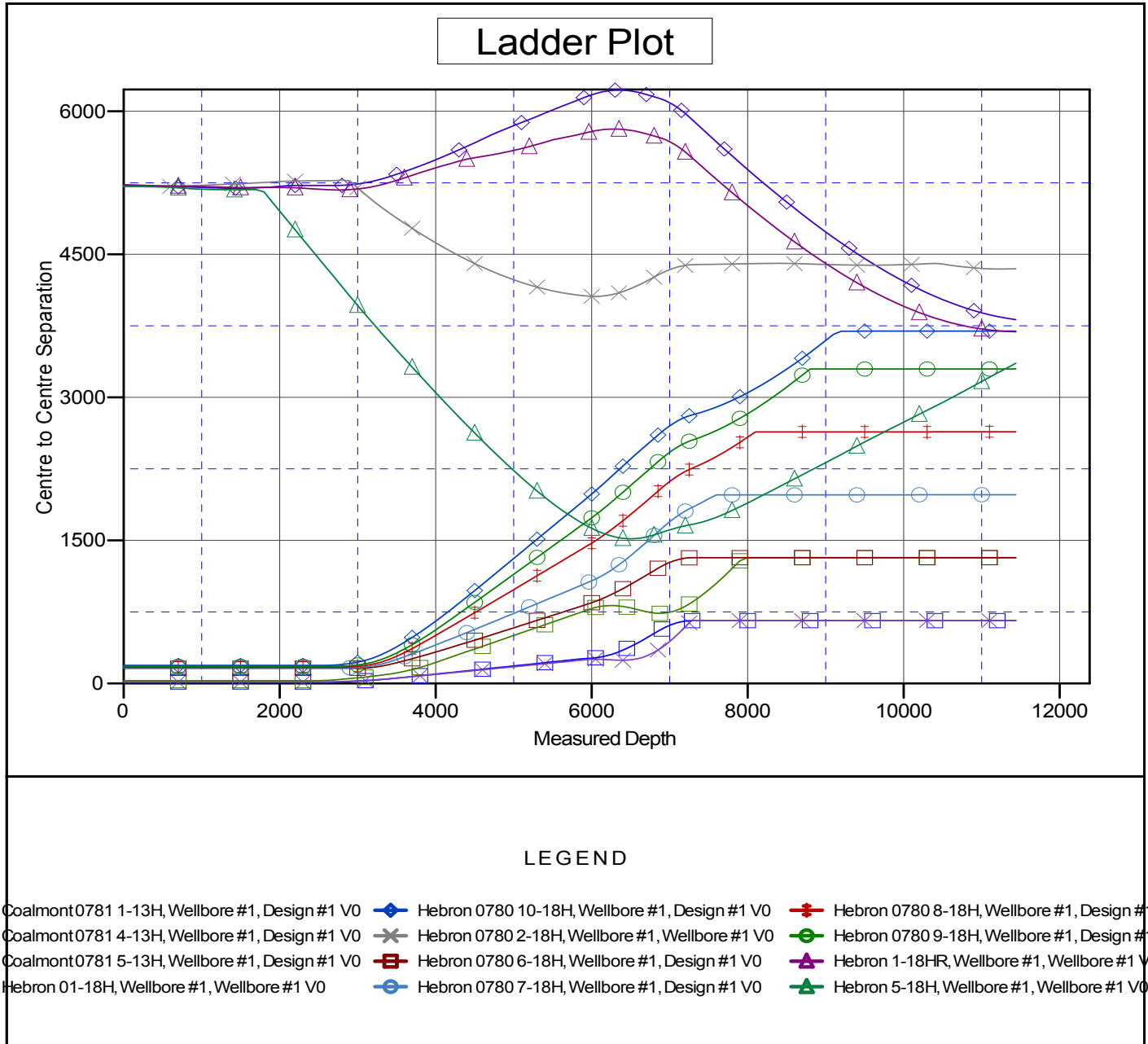
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Reference Depths are relative to WELL @ 8222.0usft (Original Well Ele)  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Coalmont 0781 2-13H  
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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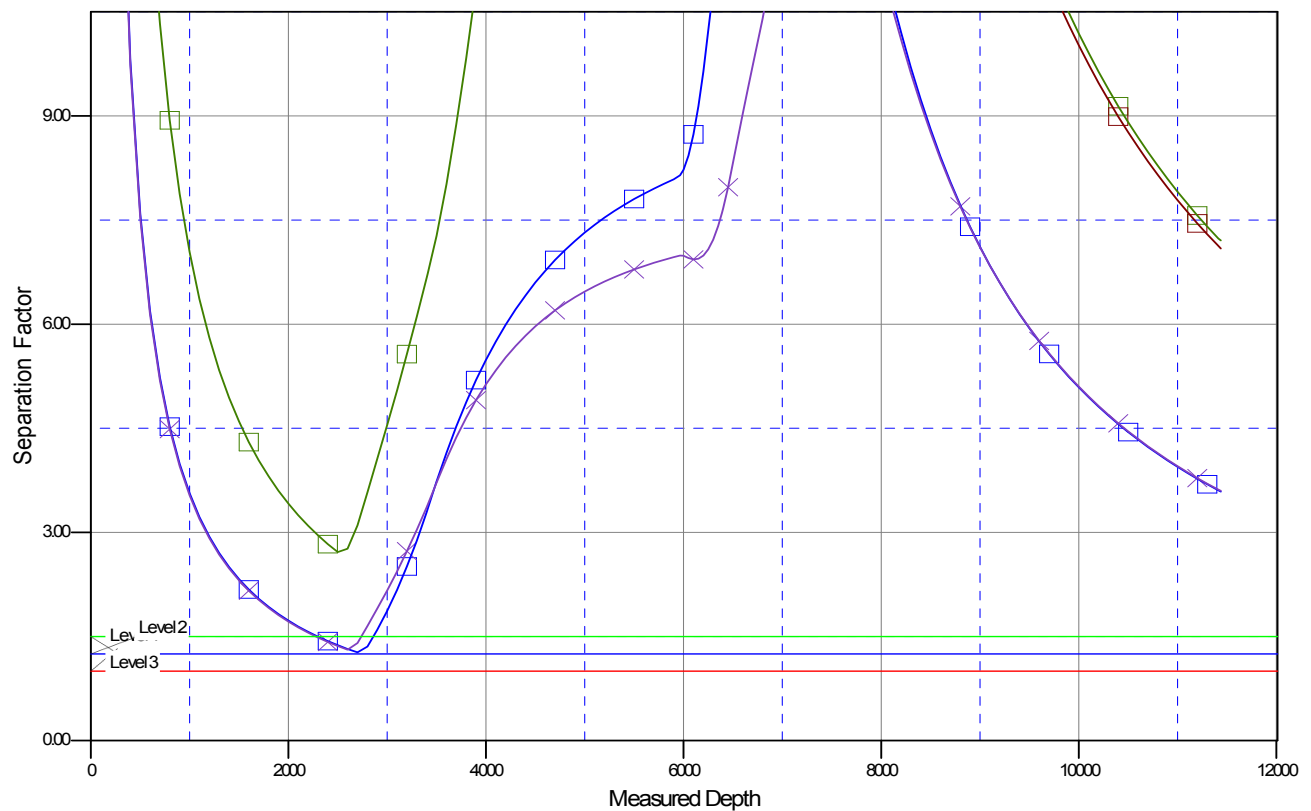
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### Separation Factor Plot



### LEGEND

- Coalmont0781 1-13H, Wellbore #1, Design #1 V0
- Coalmont0781 4-13H, Wellbore #1, Design #1 V0
- Coalmont0781 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 0780 9-18H, Wellbore #1, Design #1 V0
- Hebron 1-18HR, Wellbore #1, Wellbore #1 V0
- Hebron 5-18H, Wellbore #1, Wellbore #1 V0