

# **SandRidge Energy**

**North Park Basin**

**T7N-R80W-S18**

**Hebron 0780 7-18H**

**Wellbore #1**

**Design #1**

## **Anticollision Summary Report**

**07 July, 2016**

# SandRidge Energy

## Anticollision Summary Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Hebron 0780 7-18H
<b>Project:</b>	North Park Basin	<b>TVD Reference:</b>	WELL @ 8223.8usft (Original Well Elev)
<b>Reference Site:</b>	T7N-R80W-S18	<b>MD Reference:</b>	WELL @ 8223.8usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Hebron 0780 7-18H	<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	11,388.9	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
T7N-R80W-S18						
Coalmont 0780 1-13H - Wellbore #1 - Design #1	2,990.8	2,993.1	158.2	145.1	12.079	CC
Coalmont 0780 1-13H - Wellbore #1 - Design #1	3,000.0	3,002.4	158.3	145.1	12.048	ES
Coalmont 0780 1-13H - Wellbore #1 - Design #1	11,389.7	11,349.6	1,319.2	1,135.9	7.196	SF
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,774.5	2,772.7	165.4	153.2	13.567	CC
Coalmont 0780 2-13H - Wellbore #1 - Design #1	2,900.0	2,897.9	165.5	152.8	13.018	ES
Coalmont 0780 2-13H - Wellbore #1 - Design #1	11,389.7	11,417.9	1,979.1	1,795.5	10.781	SF
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,600.0	2,598.2	172.3	160.9	15.082	CC, ES
Coalmont 0780 4-13H - Wellbore #1 - Design #1	2,900.0	2,891.5	177.8	165.1	14.009	SF
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,500.0	2,498.2	180.2	169.2	16.419	CC, ES
Coalmont 0780 5-13H - Wellbore #1 - Design #1	2,800.0	2,787.3	188.8	176.5	15.413	SF
Hebron 01-18H - Wellbore #1 - Wellbore #1	11,389.7	6,466.0	1,870.1	1,778.5	20.402	CC, ES, SF
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,500.0	2,499.8	44.9	33.9	4.093	CC, ES
Hebron 0780 10-18H - Wellbore #1 - Design #1	2,600.0	2,598.2	46.6	35.2	4.087	SF
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,241.3	6,824.0	2,367.9	2,263.9	22.759	CC
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,300.0	6,799.4	2,368.4	2,263.3	22.528	ES
Hebron 0780 2-18H - Wellbore #1 - Wellbore #1	11,389.7	6,770.8	2,371.5	2,264.7	22.206	SF
Hebron 0780 6-18H - Wellbore #1 - Design #1	2,900.0	2,900.0	14.8	2.1	1.161	Level 2, CC, ES, SF
Hebron 0780 8-18H - Wellbore #1 - Design #1	2,800.0	2,800.0	14.9	2.6	1.207	Level 2, CC, ES, SF
Hebron 0780 9-18H - Wellbore #1 - Design #1	2,700.0	2,700.0	29.9	18.0	2.519	CC, ES, SF
Hebron 1-18HR - Wellbore #1 - Wellbore #1	11,389.7	6,539.6	1,713.7	1,608.1	16.230	CC, ES, SF
Hebron 5-18H - Wellbore #1 - Wellbore #1	7,200.0	11,052.7	364.2	292.8	5.100	SF
Hebron 5-18H - Wellbore #1 - Wellbore #1	7,760.6	10,538.1	281.7	237.5	6.378	CC, ES

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

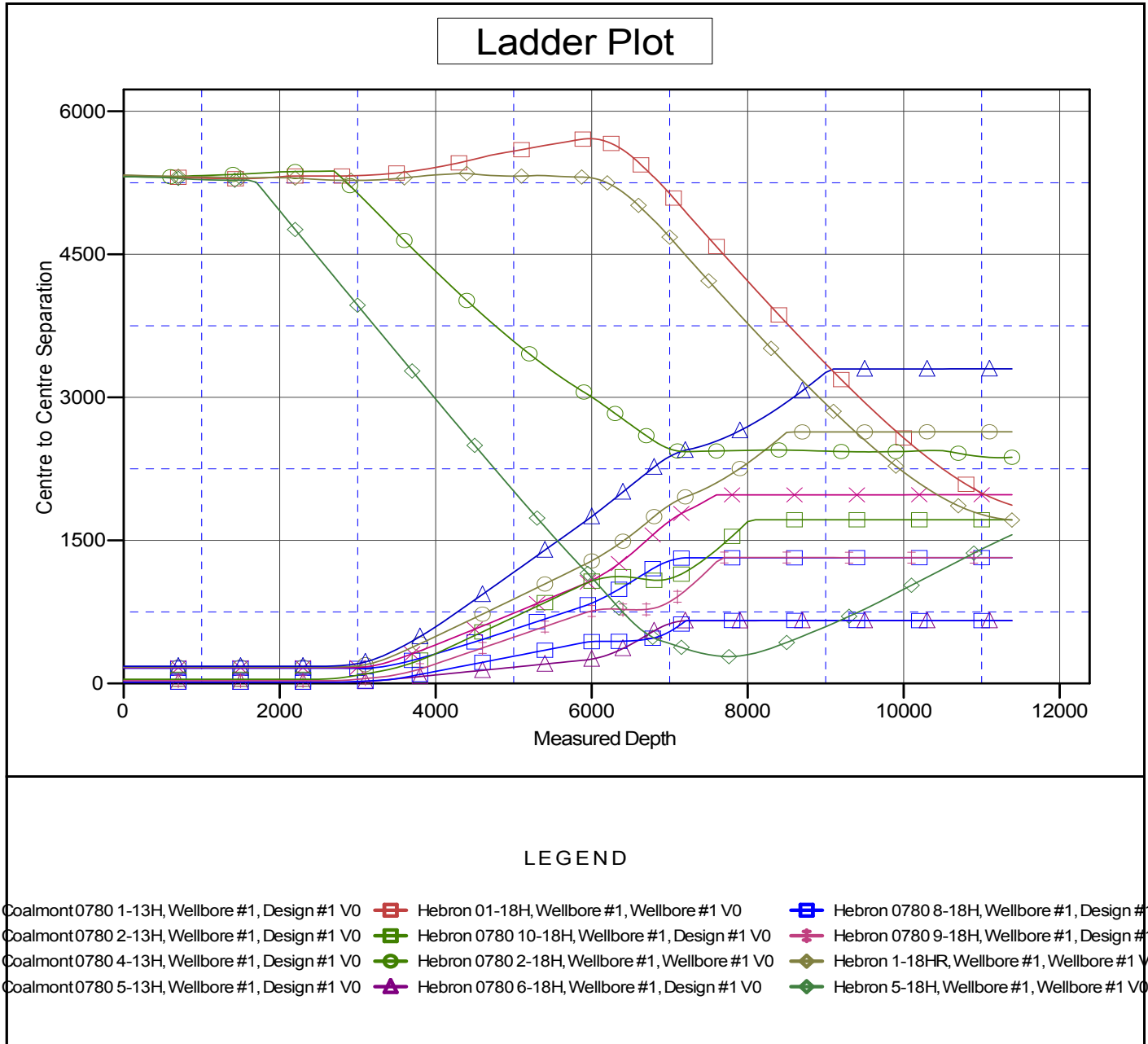
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Reference Depths are relative to WELL @ 8223.8usft (Original Well Ele)  
Offset Depths are relative to Offset Datum  
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Hebron 0780 7-18H  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: -0.60°



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