

SandRidge Energy

North Park Basin

T8N-R81W-S7

Hebron 0781 4-12H

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 4-12H
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 4-12H	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	11,763.5	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						
T8N-R81W-S7						
Grizzly 0881 1-1H36 - Wellbore #1 - Design #1	3,563.8	3,562.9	151.2	135.5	9.617	CC
Grizzly 0881 1-1H36 - Wellbore #1 - Design #1	3,600.0	3,598.7	151.3	135.4	9.524	ES
Grizzly 0881 1-1H36 - Wellbore #1 - Design #1	3,800.0	3,795.6	156.3	139.5	9.303	SF
Grizzly 0881 2-1H36 - Wellbore #1 - Design #1	4,057.6	4,049.2	128.4	110.3	7.083	CC, ES
Grizzly 0881 2-1H36 - Wellbore #1 - Design #1	4,100.0	4,090.3	128.9	110.5	7.021	SF
Grizzly 0881 3-1H36 - Wellbore #1 - Design #1	5,157.5	5,126.8	32.8	5.8	1.213	Level 2, CC
Grizzly 0881 3-1H36 - Wellbore #1 - Design #1	5,200.0	5,168.7	33.5	4.9	1.173	Level 2, ES, SF
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	2,500.0	2,500.0	150.8	139.8	13.738	CC
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	2,600.0	2,599.6	150.9	139.5	13.226	ES
Grizzly 0881 4-1H36 - Wellbore #1 - Design #1	7,350.0	7,000.0	240.7	207.0	7.150	SF
Hebron 0781 1-12H - Wellbore #1 - Design #1	3,200.0	3,200.0	30.0	15.9	2.123	CC, ES, SF
Hebron 0781 2-12H - 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	15.1	2.8	1.224	Level 2, CC, ES, SF
Hebron 3-12H - Wellbore #1 - Wellbore #1	5,596.1	5,531.0	113.6	82.3	3.635	CC, ES, SF

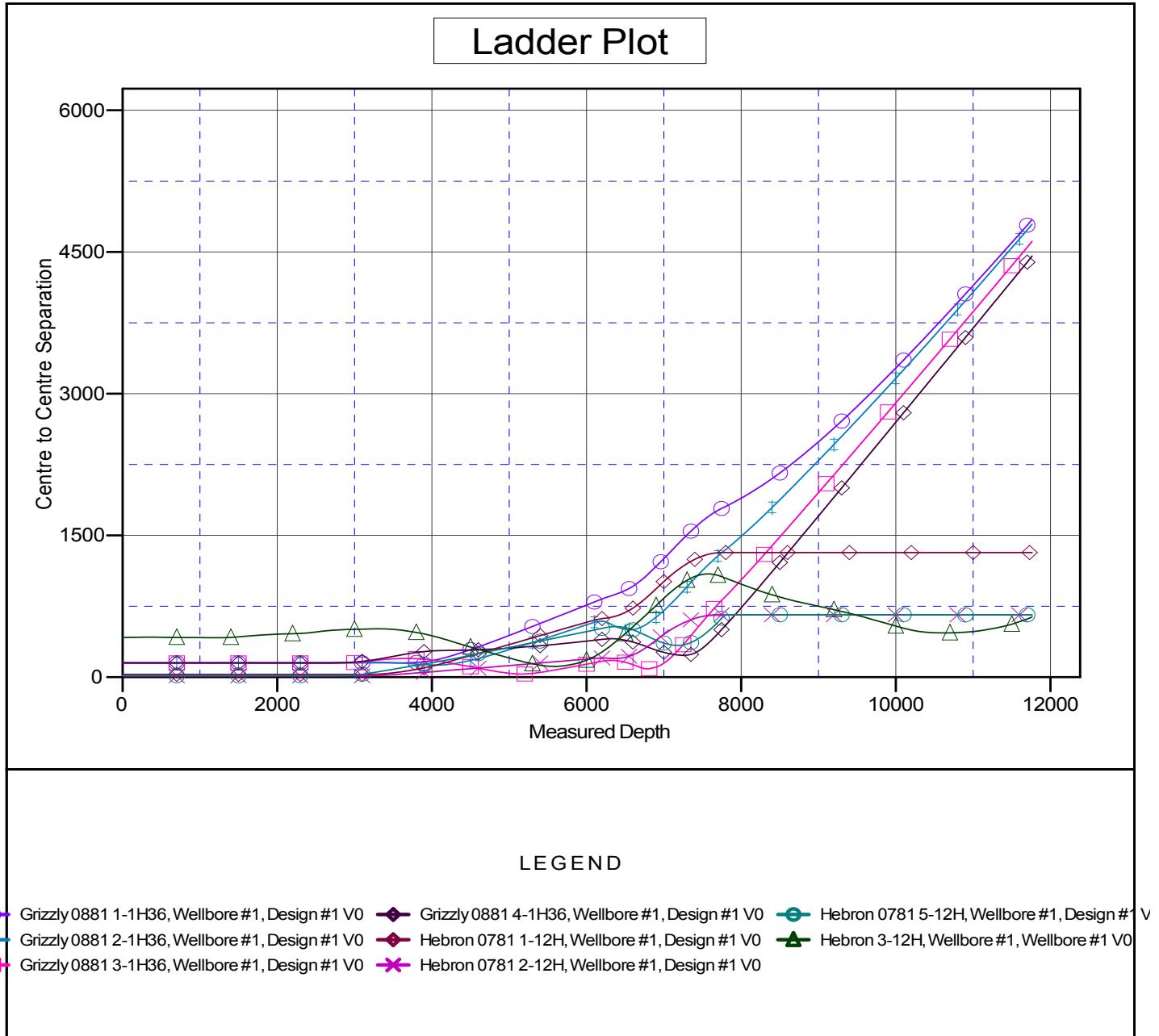
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Reference Depths are relative to KB @ 8146.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Hebron 0781 4-12H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.60°



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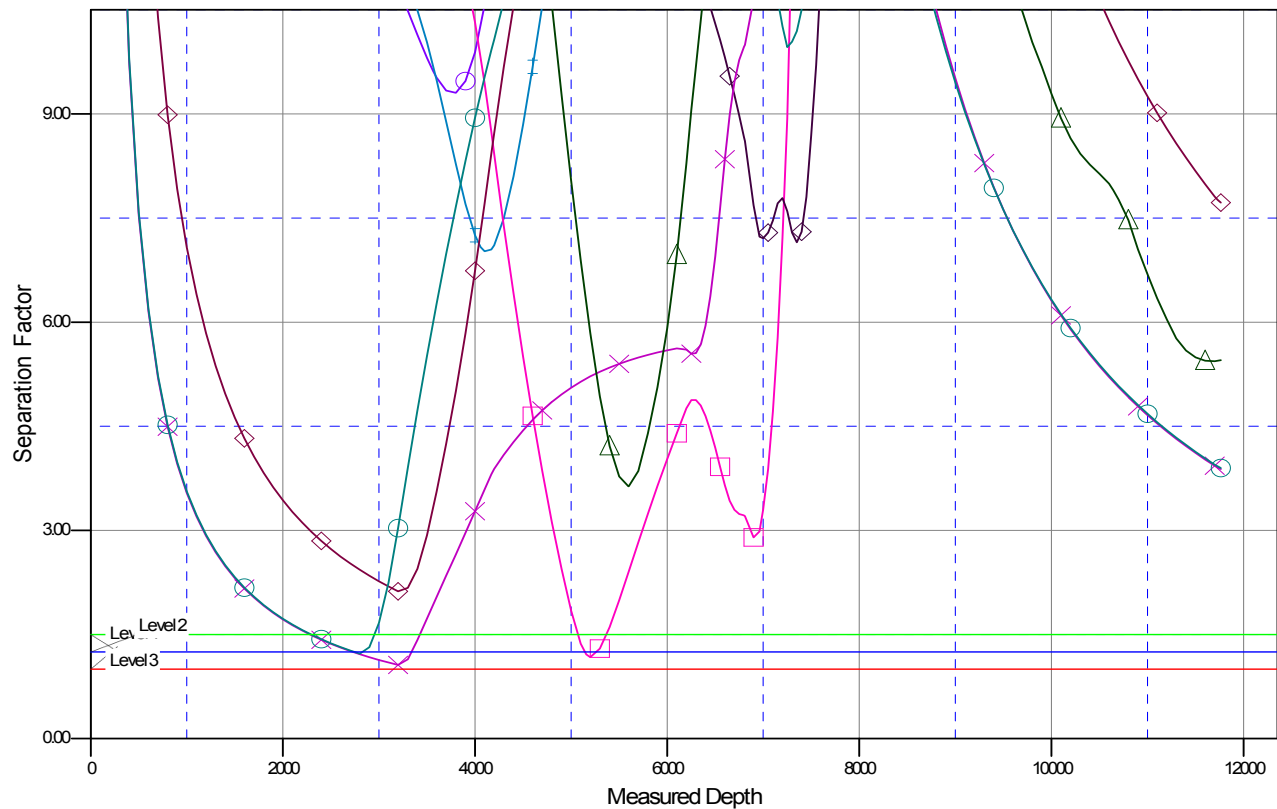
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Separation Factor Plot



LEGEND

- ◆ 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 2-12H, Wellbore #1, Design #1 V0