

SandRidge Energy

North Park Basin

T7N-R80W-S9

Mutual 0780 8-8H

Wellbore #1

Design #1

Anticollision Summary Report

18 May, 2016

SandRidge Energy

Anticollision Summary Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Mutual 0780 8-8H
Project:	North Park Basin	TVD Reference:	WELL @ 8134.0usft (Original Well Elev)
Reference Site:	T7N-R80W-S9	MD Reference:	WELL @ 8134.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Mutual 0780 8-8H	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	5/18/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,864.4	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-S9						
Gregory 0780 1-9H - Wellbore #1 - Wellbore #1	6,657.6	6,612.8	245.5	213.6	7.700	CC, ES
Gregory 0780 1-9H - Wellbore #1 - Wellbore #1	12,864.8	12,605.0	793.3	633.8	4.974	SF
Gregory 0780 2-9H - Wellbore #1 - Design #1	4,378.5	4,345.6	325.8	306.7	17.140	CC
Gregory 0780 2-9H - Wellbore #1 - Design #1	4,400.0	4,364.7	325.8	306.7	17.066	ES
Gregory 0780 2-9H - Wellbore #1 - Design #1	12,864.8	13,087.9	1,340.4	1,146.3	6.906	SF
Gregory 0780 3-9H - Wellbore #1 - Design #1	2,900.0	2,900.0	353.6	340.9	27.680	CC
Gregory 0780 3-9H - Wellbore #1 - Design #1	3,000.0	2,997.8	353.9	340.7	26.805	ES
Gregory 0780 3-9H - Wellbore #1 - Design #1	12,864.8	13,130.9	2,000.5	1,806.8	10.330	SF
Gregory 0780 4-9H - Wellbore #1 - Design #1	2,500.0	2,500.0	367.7	356.7	33.493	CC
Gregory 0780 4-9H - Wellbore #1 - Design #1	2,700.0	2,698.9	368.0	356.1	31.093	ES
Gregory 0780 4-9H - Wellbore #1 - Design #1	12,864.8	13,293.9	2,660.6	2,467.8	13.802	SF
Mutual 0780 5-8H - Wellbore #1 - Design #1	2,500.0	2,500.0	45.4	34.4	4.132	CC, ES
Mutual 0780 5-8H - Wellbore #1 - Design #1	2,600.0	2,599.2	46.2	34.8	4.051	SF
Mutual 0780 6-8H - Wellbore #1 - Design #1	2,800.0	2,800.0	30.2	17.9	2.453	CC, ES, SF
Mutual 0780 7-8H - Wellbore #1 - Design #1	3,500.0	3,500.0	15.1	-0.4	0.977	Level 1, CC, ES, SF

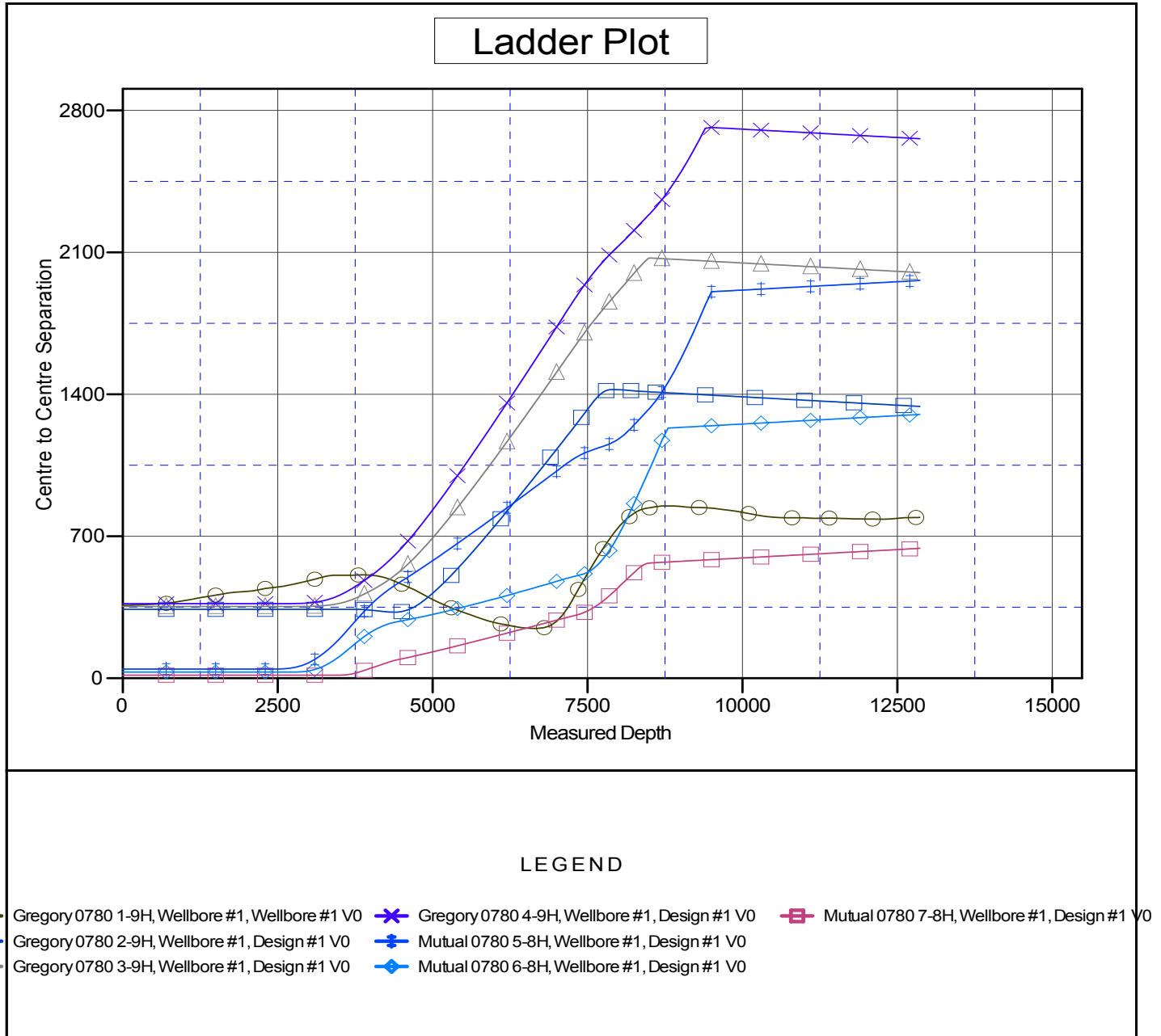
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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 8134.0usft (Original Well Ele)
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Mutual 0780 8-8H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.57°



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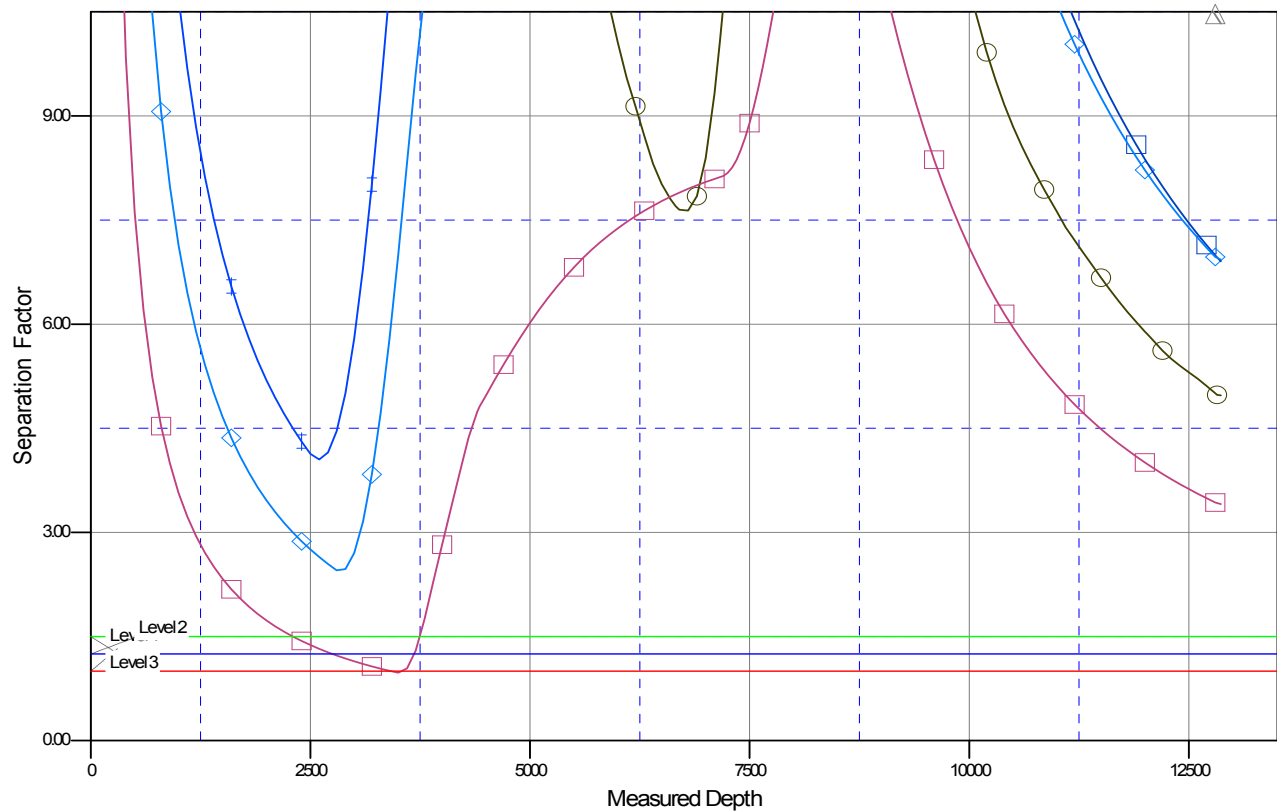
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Separation Factor Plot



LEGEND

- Gregory 0780 1-9H, Wellbore #1, Wellbore #1 V0
- Gregory 0780 2-9H, Wellbore #1, Design #1 V0
- Gregory 0780 3-9H, Wellbore #1, Design #1 V0
- Gregory 0780 4-9H, Wellbore #1, Design #1 V0
- Mutual 0780 5-8H, Wellbore #1, Design #1 V0
- Mutual 0780 6-8H, Wellbore #1, Design #1 V0
- Mutual 0780 7-8H, Wellbore #1, Design #1 V0