

SandRidge Energy

North Park Basin

T7N-R80W-S7

Marr 0780 5-6H

Wellbore #1

Design #1

Anticollision Report

09 May, 2016

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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	5/2/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,251.7	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-S7						
Marr 0780 1-6H - Wellbore #1 - Design #1	2,500.0	2,498.8	105.0	94.0	9.567	CC, ES
Marr 0780 1-6H - Wellbore #1 - Design #1	12,251.7	12,983.9	2,564.3	2,266.2	8.600	SF
Marr 0780 2-6H - Wellbore #1 - Design #1	2,900.0	2,898.8	90.0	77.3	7.049	CC, ES
Marr 0780 2-6H - Wellbore #1 - Design #1	3,100.0	3,095.5	93.6	79.9	6.869	SF
Marr 0780 3-6H - Wellbore #1 - Design #1	3,135.1	3,133.9	75.0	61.2	5.425	CC
Marr 0780 3-6H - Wellbore #1 - Design #1	3,200.0	3,198.1	75.3	61.2	5.333	ES
Marr 0780 3-6H - Wellbore #1 - Design #1	3,300.0	3,296.5	77.2	62.7	5.317	SF
Marr 0780 4-6H - Wellbore #1 - Design #1	3,400.0	3,398.8	60.0	45.0	3.995	CC, ES
Marr 0780 4-6H - Wellbore #1 - Design #1	12,251.7	12,245.6	584.4	351.1	2.505	SF
Marr 0780 6-6H - Wellbore #1 - Design #1	3,283.5	3,283.5	14.7	0.2	1.015	Level 2, CC
Marr 0780 6-6H - Wellbore #1 - Design #1	3,300.0	3,299.9	14.7	0.2	1.012	Level 2, ES, SF
Marr 0780 7-6H - Wellbore #1 - Design #1	3,140.4	3,140.5	28.2	14.4	2.046	CC, ES, SF
Marr 0780 8-6H - Wellbore #1 - Design #1	2,827.8	2,828.3	40.8	28.4	3.295	CC, ES
Marr 0780 8-6H - Wellbore #1 - Design #1	2,900.0	2,899.8	41.8	29.1	3.291	SF

Offset Design													T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1		Offset Site Error:		0.0 usft
Survey Program:													0-Sperry MWD		Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	-155.40	-95.5	-43.7	105.0								
100.0	100.0	98.8	98.8	0.1	0.1	-155.40	-95.5	-43.7	105.0	104.8	0.19	559.470					
200.0	200.0	198.8	198.8	0.3	0.3	-155.40	-95.5	-43.7	105.0	104.4	0.64	165.182					
300.0	300.0	298.8	298.8	0.5	0.5	-155.40	-95.5	-43.7	105.0	103.9	1.09	96.756					
400.0	400.0	398.8	398.8	0.8	0.8	-155.40	-95.5	-43.7	105.0	103.5	1.53	68.415					
500.0	500.0	498.8	498.8	1.0	1.0	-155.40	-95.5	-43.7	105.0	103.0	1.98	52.915					
600.0	600.0	598.8	598.8	1.2	1.2	-155.40	-95.5	-43.7	105.0	102.6	2.43	43.141					
700.0	700.0	698.8	698.8	1.4	1.4	-155.40	-95.5	-43.7	105.0	102.1	2.88	36.415					
800.0	800.0	798.8	798.8	1.7	1.7	-155.40	-95.5	-43.7	105.0	101.7	3.33	31.504					
900.0	900.0	898.8	898.8	1.9	1.9	-155.40	-95.5	-43.7	105.0	101.2	3.78	27.759					
1,000.0	1,000.0	998.8	998.8	2.1	2.1	-155.40	-95.5	-43.7	105.0	100.8	4.23	24.811					
1,100.0	1,100.0	1,098.8	1,098.8	2.3	2.3	-155.40	-95.5	-43.7	105.0	100.3	4.68	22.428					
1,200.0	1,200.0	1,198.8	1,198.8	2.6	2.6	-155.40	-95.5	-43.7	105.0	99.9	5.13	20.463					
1,300.0	1,300.0	1,298.8	1,298.8	2.8	2.8	-155.40	-95.5	-43.7	105.0	99.4	5.58	18.815					

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

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Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1												Offset Site Error: 0.0 usft	
Survey Program: 0-Sperry MWD												Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
1,400.0	1,400.0	1,398.8	1,398.8	3.0	3.0	-155.40	-95.5	-43.7	105.0	99.0	6.03	17.412	
1,500.0	1,500.0	1,498.8	1,498.8	3.2	3.2	-155.40	-95.5	-43.7	105.0	98.5	6.48	16.204	
1,600.0	1,600.0	1,598.8	1,598.8	3.5	3.5	-155.40	-95.5	-43.7	105.0	98.1	6.93	15.153	
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	-155.40	-95.5	-43.7	105.0	97.6	7.38	14.230	
1,800.0	1,800.0	1,798.8	1,798.8	3.9	3.9	-155.40	-95.5	-43.7	105.0	97.2	7.83	13.413	
1,900.0	1,900.0	1,898.8	1,898.8	4.1	4.1	-155.40	-95.5	-43.7	105.0	96.7	8.28	12.684	
2,000.0	2,000.0	1,998.8	1,998.8	4.4	4.4	-155.40	-95.5	-43.7	105.0	96.3	8.73	12.031	
2,100.0	2,100.0	2,098.8	2,098.8	4.6	4.6	-155.40	-95.5	-43.7	105.0	95.8	9.18	11.442	
2,200.0	2,200.0	2,198.8	2,198.8	4.8	4.8	-155.40	-95.5	-43.7	105.0	95.4	9.63	10.907	
2,300.0	2,300.0	2,298.8	2,298.8	5.0	5.0	-155.40	-95.5	-43.7	105.0	94.9	10.08	10.421	
2,400.0	2,400.0	2,398.8	2,398.8	5.3	5.3	-155.40	-95.5	-43.7	105.0	94.5	10.53	9.976	
2,500.0	2,500.0	2,498.8	2,498.8	5.5	5.5	-155.40	-95.5	-43.7	105.0	94.0	10.97	9.567 CC, ES	
2,600.0	2,600.0	2,597.3	2,597.3	5.7	5.7	-154.59	-95.5	-45.4	105.7	94.3	11.41	9.267	
2,700.0	2,700.0	2,695.5	2,695.4	5.9	5.9	-152.18	-95.5	-50.4	108.0	96.2	11.83	9.131	
2,800.0	2,800.0	2,793.3	2,792.8	6.2	6.1	-148.41	-95.5	-58.7	112.2	100.0	12.25	9.163	
2,900.0	2,900.0	2,890.4	2,889.2	6.4	6.4	-143.65	-95.5	-70.3	118.9	106.3	12.67	9.386	
3,000.0	3,000.0	2,986.6	2,984.2	6.6	6.7	-138.35	-95.5	-84.9	128.6	115.5	13.10	9.820	
3,100.0	3,100.0	3,081.7	3,077.7	6.8	7.0	-132.95	-95.5	-102.5	141.7	128.2	13.53	10.473	
3,200.0	3,200.0	3,175.5	3,169.3	7.1	7.4	-127.82	-95.5	-123.0	158.5	144.5	13.98	11.333	
3,300.0	3,300.0	3,267.9	3,258.7	7.3	7.8	-123.18	-95.5	-146.0	179.0	164.5	14.47	12.371	
3,400.0	3,400.0	3,358.6	3,345.8	7.5	8.4	-119.12	-95.5	-171.4	203.2	188.2	15.00	13.548	
3,500.0	3,500.0	3,447.2	3,430.0	7.7	9.0	117.15	-95.5	-198.9	231.8	216.4	15.48	14.980	
3,600.0	3,599.8	3,532.9	3,510.6	7.9	9.7	120.33	-95.5	-227.9	265.7	249.8	15.86	16.749	
3,700.0	3,699.5	3,615.2	3,587.3	8.1	10.5	123.21	-95.5	-258.0	304.8	288.6	16.23	18.784	
3,800.0	3,798.7	3,694.0	3,659.7	8.3	11.3	125.71	-95.5	-288.9	349.3	332.7	16.58	21.068	
3,895.1	3,892.7	3,765.4	3,724.7	8.5	12.1	127.70	-95.5	-318.7	396.4	379.5	16.91	23.444	
3,900.0	3,897.5	3,769.0	3,727.9	8.5	12.1	127.84	-95.5	-320.2	398.9	382.0	16.92	23.572	
4,000.0	3,996.0	3,840.9	3,792.4	8.7	13.0	130.37	-95.5	-351.8	452.4	435.1	17.25	26.228	
4,100.0	4,094.5	3,917.2	3,860.3	9.0	14.0	132.58	-95.5	-386.8	508.2	490.6	17.59	28.887	
4,200.0	4,193.0	3,998.3	3,932.3	9.2	15.1	134.50	-95.5	-424.2	564.7	546.8	17.95	31.456	
4,300.0	4,291.5	4,079.4	4,004.3	9.5	16.2	136.07	-95.5	-461.6	621.6	603.3	18.33	33.915	
4,400.0	4,390.0	4,160.5	4,076.3	9.8	17.4	137.38	-95.5	-498.9	678.8	660.1	18.72	36.263	
4,500.0	4,488.5	4,241.6	4,148.2	10.0	18.6	138.50	-95.5	-536.3	736.2	717.0	19.12	38.500	
4,600.0	4,587.0	4,322.8	4,220.2	10.3	19.7	139.45	-95.5	-573.6	793.7	774.2	19.54	40.628	
4,700.0	4,685.5	4,403.9	4,292.2	10.6	20.9	140.28	-95.5	-611.0	851.3	831.4	19.96	42.649	
4,800.0	4,784.1	4,485.0	4,364.2	10.9	22.1	141.00	-95.5	-648.4	909.1	888.7	20.40	44.565	
4,900.0	4,882.6	4,566.1	4,436.2	11.2	23.3	141.64	-95.5	-685.7	967.0	946.1	20.85	46.382	
5,000.0	4,981.1	4,647.2	4,508.2	11.5	24.6	142.21	-95.5	-723.1	1,024.9	1,003.6	21.31	48.104	
5,100.0	5,079.6	4,728.3	4,580.2	11.9	25.8	142.72	-95.5	-760.5	1,082.9	1,061.1	21.77	49.736	
5,200.0	5,178.1	4,809.4	4,652.2	12.2	27.0	143.17	-95.5	-797.8	1,140.9	1,118.7	22.25	51.283	
5,300.0	5,276.6	4,890.6	4,724.2	12.5	28.2	143.58	-95.5	-835.2	1,199.0	1,176.3	22.73	52.747	
5,400.0	5,375.1	4,971.7	4,796.2	12.9	29.5	143.96	-95.5	-872.6	1,257.1	1,233.9	23.22	54.134	
5,500.0	5,473.6	5,052.8	4,868.2	13.2	30.7	144.30	-95.5	-909.9	1,315.3	1,291.5	23.72	55.449	
5,577.5	5,550.0	5,115.7	4,924.0	13.5	31.6	144.54	-95.5	-938.9	1,360.4	1,336.3	24.11	56.422	
5,600.0	5,572.2	5,133.9	4,940.2	13.5	31.9	154.62	-95.5	-947.3	1,373.4	1,349.1	24.27	56.594	
5,650.0	5,621.7	5,174.8	4,976.5	13.7	32.6	-175.97	-95.5	-966.1	1,402.2	1,377.4	24.76	56.641	
5,700.0	5,671.2	5,215.9	5,013.0	13.8	33.2	-144.33	-95.5	-985.0	1,430.5	1,405.1	25.38	56.352	
5,750.0	5,720.6	5,256.9	5,049.4	13.9	33.8	-121.56	-95.5	-1,003.9	1,458.2	1,432.1	26.09	55.891	
5,800.0	5,769.5	5,297.6	5,085.5	14.0	34.4	-107.38	-95.5	-1,022.7	1,485.2	1,458.4	26.81	55.399	
5,850.0	5,817.8	5,338.0	5,121.3	14.1	35.0	-98.20	-95.5	-1,041.3	1,511.5	1,484.0	27.50	54.970	
5,900.0	5,865.1	5,377.7	5,156.6	14.2	35.7	-91.83	-95.5	-1,059.6	1,537.0	1,508.9	28.12	54.662	
5,950.0	5,911.3	5,416.5	5,191.1	14.2	36.3	-87.14	-95.5	-1,077.5	1,561.7	1,533.0	28.65	54.507	

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

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

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,000.0	5,956.1	5,454.4	5,224.7	14.3	36.8	-83.53	-95.5	-1,094.9	1,585.5	1,556.5	29.09	54.514		
6,050.0	5,999.4	5,491.0	5,257.2	14.3	37.4	-80.66	-95.5	-1,111.8	1,608.6	1,579.2	29.42	54.684		
6,100.0	6,040.8	5,526.3	5,288.5	14.3	37.9	-78.32	-95.5	-1,128.0	1,630.8	1,601.2	29.65	55.007		
6,150.0	6,080.3	5,560.0	5,318.4	14.4	38.5	-76.37	-95.5	-1,143.6	1,652.3	1,622.5	29.79	55.469		
6,200.0	6,117.5	5,592.0	5,346.8	14.4	39.0	-74.72	-95.5	-1,158.3	1,673.0	1,643.1	29.85	56.055		
6,250.0	6,152.4	5,622.2	5,373.6	14.4	39.4	-73.30	-95.5	-1,172.2	1,692.9	1,663.1	29.84	56.741		
6,300.0	6,184.8	5,650.3	5,398.5	14.5	39.9	-72.05	-95.5	-1,185.1	1,712.2	1,682.4	29.78	57.503		
6,350.0	6,214.4	5,676.2	5,421.6	14.6	40.3	-70.92	-95.5	-1,197.1	1,730.8	1,701.1	29.68	58.314		
6,400.0	6,241.2	5,699.9	5,442.6	14.7	40.6	-69.90	-95.5	-1,208.0	1,748.7	1,719.1	29.57	59.141		
6,405.7	6,244.1	5,702.4	5,444.8	14.7	40.7	-69.79	-95.5	-1,209.2	1,750.7	1,721.2	29.56	59.235		
6,500.0	6,291.2	5,744.3	5,482.0	15.1	41.3	-71.07	-95.5	-1,228.5	1,785.6	1,755.3	30.21	59.099		
6,555.7	6,319.1	5,769.1	5,504.0	15.5	41.7	-71.82	-95.5	-1,239.9	1,807.7	1,777.0	30.66	58.964		
6,600.0	6,339.7	5,787.4	5,520.3	15.9	42.0	-70.54	-95.5	-1,248.3	1,825.6	1,794.8	30.79	59.283		
6,650.0	6,359.3	5,804.9	5,535.7	16.3	42.2	-69.06	-95.5	-1,256.3	1,845.4	1,814.5	30.88	59.754		
6,700.0	6,374.8	5,818.6	5,548.0	16.8	42.5	-67.54	-95.5	-1,262.7	1,864.8	1,833.9	30.92	60.310		
6,750.0	6,386.1	5,828.7	5,556.9	17.3	42.6	-65.99	-95.5	-1,267.3	1,883.7	1,852.8	30.93	60.896		
6,798.7	6,393.0	5,834.9	5,562.4	17.9	42.7	-64.44	-95.5	-1,270.2	1,901.6	1,870.7	30.96	61.419		
6,800.0	6,393.1	5,835.0	5,562.5	17.9	42.7	-64.44	-95.5	-1,270.2	1,902.1	1,871.1	30.98	61.406		
6,900.0	6,403.1	5,843.8	5,570.3	19.1	42.8	-64.73	-95.5	-1,274.3	1,940.6	1,908.4	32.15	60.357		
7,000.0	6,413.0	5,852.7	5,578.2	20.5	43.0	-65.01	-95.5	-1,278.4	1,983.3	1,949.9	33.43	59.321		
7,100.0	6,422.9	5,861.6	5,586.1	21.9	43.1	-65.30	-95.5	-1,282.5	2,030.0	1,995.2	34.80	58.328		
7,200.0	6,432.9	5,870.5	5,594.0	23.4	43.3	-65.58	-95.5	-1,286.6	2,080.5	2,044.3	36.25	57.397		
7,300.0	6,442.8	5,879.4	5,601.9	24.9	43.4	-65.87	-95.5	-1,290.7	2,134.4	2,096.7	37.75	56.538		
7,400.0	6,452.7	5,888.2	5,609.7	26.5	43.5	-66.15	-95.5	-1,294.7	2,191.5	2,152.2	39.31	55.754		
7,500.0	6,462.7	5,897.1	5,617.6	28.2	43.7	-66.44	-95.5	-1,298.8	2,251.6	2,210.7	40.91	55.043		
7,600.0	6,472.6	5,906.0	5,625.5	29.8	43.8	-66.72	-95.5	-1,302.9	2,314.4	2,271.9	42.54	54.402		
7,700.0	6,482.5	5,914.9	5,633.4	31.5	43.9	-67.01	-95.5	-1,307.0	2,379.7	2,335.5	44.21	53.827		
7,800.0	6,492.5	5,923.7	5,641.3	33.3	44.1	-67.29	-95.5	-1,311.1	2,447.4	2,401.5	45.91	53.312		
7,900.0	6,502.4	5,932.6	5,649.1	35.0	44.2	-67.57	-95.5	-1,315.2	2,517.1	2,469.5	47.63	52.851		
8,000.0	6,512.3	5,941.5	5,656.9	36.8	44.3	-67.85	-95.5	-1,319.3	2,592.8	2,546.6	49.35	52.385		
8,100.0	6,522.3	5,950.4	5,664.8	38.5	44.4	-68.13	-95.5	-1,323.4	2,668.5	2,619.4	51.07	51.921		
8,200.0	6,532.2	5,959.3	5,672.7	40.3	44.5	-68.41	-95.5	-1,327.5	2,744.2	2,695.1	52.79	51.455		
8,300.0	6,542.1	5,968.2	5,680.6	42.1	44.6	-68.69	-95.5	-1,331.6	2,820.0	2,770.8	54.51	50.989		
8,400.0	6,552.1	5,977.1	5,688.5	43.9	44.7	-68.97	-95.5	-1,335.7	2,895.8	2,846.5	56.23	50.523		
8,500.0	6,562.0	5,986.0	5,696.4	45.8	44.8	-69.25	-95.5	-1,339.8	2,971.6	2,922.3	57.95	50.057		
8,600.0	6,571.9	5,994.9	5,704.3	47.6	44.9	-69.53	-95.5	-1,343.9	3,047.4	2,998.0	59.67	49.591		
8,700.0	6,581.9	6,003.8	5,712.2	49.4	45.0	-69.81	-95.5	-1,348.0	3,123.2	3,073.8	61.39	49.125		
8,800.0	6,591.8	6,012.7	5,720.1	51.3	45.1	-70.09	-95.5	-1,352.1	3,199.0	3,149.6	63.11	48.659		
8,900.0	6,601.7	6,021.6	5,728.0	53.1	45.2	-70.37	-95.5	-1,356.2	3,274.8	3,225.4	64.83	48.193		
9,000.0	6,611.7	6,030.5	5,735.9	55.0	45.3	-70.65	-95.5	-1,360.3	3,350.6	3,301.2	66.55	47.727		
9,100.0	6,621.6	6,039.4	5,743.8	56.8	45.4	-70.93	-95.5	-1,364.4	3,426.4	3,377.0	68.27	47.261		
9,200.0	6,631.5	6,048.3	5,751.7	58.7	45.5	-71.21	-95.5	-1,368.5	3,502.2	3,452.8	70.00	46.795		
9,300.0	6,641.4	6,057.2	5,759.6	60.5	45.6	-71.49	-95.5	-1,372.6	3,578.0	3,528.6	71.72	46.329		
9,400.0	6,651.4	6,066.1	5,767.5	62.4	45.7	-71.77	-95.5	-1,376.7	3,653.8	3,604.4	73.44	45.863		
9,500.0	6,661.3	6,075.0	5,775.4	64.3	45.8	-72.05	-95.5	-1,380.8	3,729.6	3,680.2	75.16	45.397		
9,600.0	6,671.2	6,083.9	5,783.3	66.1	45.9	-72.33	-95.5	-1,384.9	3,805.4	3,756.0	76.88	44.931		
9,700.0	6,681.2	6,092.8	5,791.2	68.0	46.0	-72.61	-95.5	-1,389.0	3,881.2	3,831.8	78.60	44.465		
9,800.0	6,691.1	6,101.7	5,799.1	69.9	46.1	-72.89	-95.5	-1,393.1	3,957.0	3,907.6	80.32	44.000		
9,900.0	6,701.0	6,110.6	5,807.0	71.8	46.2	-73.17	-95.5	-1,397.2	4,032.8	4,003.4	82.04	43.534		
10,000.0	6,711.0	6,119.5	5,814.9	73.7	46.3	-73.45	-95.5	-1,401.3	4,108.6	4,079.2	83.76	43.068		
10,100.0	6,720.9	6,128.4	5,822.8	75.6	46.4	-73.73	-95.5	-1,405.4	4,184.4	4,155.0	85.48	42.602		
10,200.0	6,730.8	6,137.3	5,830.7	77.4	46.5	-74.01	-95.5	-1,409.5	4,260.2	4,230.8	87.20	42.136		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.0	6,740.8	11,032.2	6,788.8	79.3	134.3	-91.10	3,995.0	-2,243.2	2,567.0	2,364.4	202.66	12.667		
10,400.0	6,750.7	11,132.2	6,798.7	81.2	136.9	-91.10	4,094.5	-2,243.2	2,566.9	2,359.4	207.53	12.369		
10,500.0	6,760.6	11,232.2	6,808.7	83.1	139.6	-91.10	4,194.0	-2,243.2	2,566.8	2,354.4	212.41	12.084		
10,600.0	6,770.6	11,332.2	6,818.6	85.0	142.3	-91.10	4,293.5	-2,243.2	2,566.6	2,349.3	217.29	11.812		
10,700.0	6,780.5	11,432.2	6,828.5	86.9	145.1	-91.10	4,393.0	-2,243.2	2,566.5	2,344.3	222.17	11.552		
10,800.0	6,790.4	11,532.2	6,838.5	88.8	147.8	-91.10	4,492.5	-2,243.2	2,566.4	2,339.3	227.05	11.303		
10,900.0	6,800.4	11,632.2	6,848.4	90.7	150.5	-91.10	4,592.0	-2,243.1	2,566.2	2,334.3	231.94	11.064		
11,000.0	6,810.3	11,732.2	6,858.3	92.6	153.3	-91.10	4,691.5	-2,243.1	2,566.1	2,329.3	236.82	10.835		
11,100.0	6,820.2	11,832.2	6,868.3	94.5	156.1	-91.10	4,791.0	-2,243.1	2,565.9	2,324.2	241.71	10.616		
11,200.0	6,830.2	11,932.2	6,878.2	96.4	158.9	-91.10	4,890.5	-2,243.1	2,565.8	2,319.2	246.61	10.404		
11,300.0	6,840.1	12,032.2	6,888.1	98.3	161.7	-91.10	4,990.0	-2,243.1	2,565.7	2,314.2	251.50	10.201		
11,400.0	6,850.0	12,132.2	6,898.1	100.2	164.5	-91.10	5,089.5	-2,243.1	2,565.5	2,309.1	256.40	10.006		
11,500.0	6,860.0	12,232.2	6,908.0	102.1	167.3	-91.10	5,189.0	-2,243.1	2,565.4	2,304.1	261.30	9.818		
11,600.0	6,869.9	12,332.2	6,917.9	104.0	170.1	-91.10	5,288.6	-2,243.1	2,565.2	2,299.0	266.20	9.637		
11,700.0	6,879.8	12,432.2	6,927.9	105.9	173.0	-91.10	5,388.1	-2,243.1	2,565.1	2,294.0	271.10	9.462		
11,800.0	6,889.7	12,532.2	6,937.8	107.8	175.8	-91.10	5,487.6	-2,243.1	2,565.0	2,289.0	276.00	9.293		
11,900.0	6,899.7	12,632.2	6,947.7	109.7	178.6	-91.10	5,587.1	-2,243.1	2,564.8	2,283.9	280.91	9.131		
12,000.0	6,909.6	12,732.2	6,957.7	111.6	181.5	-91.10	5,686.6	-2,243.1	2,564.7	2,278.9	285.81	8.973		
12,100.0	6,919.5	12,832.2	6,967.6	113.5	184.4	-91.10	5,786.1	-2,243.1	2,564.5	2,273.8	290.72	8.821		
12,200.0	6,929.5	12,932.2	6,977.5	115.4	187.2	-91.10	5,885.6	-2,243.1	2,564.4	2,268.8	295.63	8.674		
12,251.7	6,934.6	12,983.9	6,982.7	116.4	188.7	-91.10	5,937.0	-2,243.1	2,564.3	2,266.2	298.17	8.600 SF		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.37	-81.8	-37.5	90.0					
100.0	100.0	98.8	98.8	0.1	0.1	-155.37	-81.8	-37.5	90.0	89.8	0.19	479.727		
200.0	200.0	198.8	198.8	0.3	0.3	-155.37	-81.8	-37.5	90.0	89.4	0.64	141.638		
300.0	300.0	298.8	298.8	0.5	0.5	-155.37	-81.8	-37.5	90.0	88.9	1.09	82.965		
400.0	400.0	398.8	398.8	0.8	0.8	-155.37	-81.8	-37.5	90.0	88.5	1.53	58.663		
500.0	500.0	498.8	498.8	1.0	1.0	-155.37	-81.8	-37.5	90.0	88.0	1.98	45.373		
600.0	600.0	598.8	598.8	1.2	1.2	-155.37	-81.8	-37.5	90.0	87.6	2.43	36.992		
700.0	700.0	698.8	698.8	1.4	1.4	-155.37	-81.8	-37.5	90.0	87.1	2.88	31.225		
800.0	800.0	798.8	798.8	1.7	1.7	-155.37	-81.8	-37.5	90.0	86.7	3.33	27.013		
900.0	900.0	898.8	898.8	1.9	1.9	-155.37	-81.8	-37.5	90.0	86.2	3.78	23.803		
1,000.0	1,000.0	998.8	998.8	2.1	2.1	-155.37	-81.8	-37.5	90.0	85.8	4.23	21.274		
1,100.0	1,100.0	1,098.8	1,098.8	2.3	2.3	-155.37	-81.8	-37.5	90.0	85.3	4.68	19.231		
1,200.0	1,200.0	1,198.8	1,198.8	2.6	2.6	-155.37	-81.8	-37.5	90.0	84.9	5.13	17.547		
1,300.0	1,300.0	1,298.8	1,298.8	2.8	2.8	-155.37	-81.8	-37.5	90.0	84.5	5.58	16.133		
1,400.0	1,400.0	1,398.8	1,398.8	3.0	3.0	-155.37	-81.8	-37.5	90.0	84.0	6.03	14.930		
1,500.0	1,500.0	1,498.8	1,498.8	3.2	3.2	-155.37	-81.8	-37.5	90.0	83.6	6.48	13.895		
1,600.0	1,600.0	1,598.8	1,598.8	3.5	3.5	-155.37	-81.8	-37.5	90.0	83.1	6.93	12.993		
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	-155.37	-81.8	-37.5	90.0	82.7	7.38	12.202		
1,800.0	1,800.0	1,798.8	1,798.8	3.9	3.9	-155.37	-81.8	-37.5	90.0	82.2	7.83	11.501		
1,900.0	1,900.0	1,898.8	1,898.8	4.1	4.1	-155.37	-81.8	-37.5	90.0	81.8	8.28	10.876		
2,000.0	2,000.0	1,998.8	1,998.8	4.4	4.4	-155.37	-81.8	-37.5	90.0	81.3	8.73	10.316		
2,100.0	2,100.0	2,098.8	2,098.8	4.6	4.6	-155.37	-81.8	-37.5	90.0	80.9	9.18	9.811		
2,200.0	2,200.0	2,198.8	2,198.8	4.8	4.8	-155.37	-81.8	-37.5	90.0	80.4	9.63	9.353		
2,300.0	2,300.0	2,298.8	2,298.8	5.0	5.0	-155.37	-81.8	-37.5	90.0	80.0	10.08	8.935		
2,400.0	2,400.0	2,398.8	2,398.8	5.3	5.3	-155.37	-81.8	-37.5	90.0	79.5	10.53	8.554		
2,500.0	2,500.0	2,498.8	2,498.8	5.5	5.5	-155.37	-81.8	-37.5	90.0	79.1	10.97	8.203		
2,600.0	2,600.0	2,598.8	2,598.8	5.7	5.7	-155.37	-81.8	-37.5	90.0	78.6	11.42	7.881		
2,700.0	2,700.0	2,698.8	2,698.8	5.9	5.9	-155.37	-81.8	-37.5	90.0	78.2	11.87	7.582		
2,800.0	2,800.0	2,798.8	2,798.8	6.2	6.2	-155.37	-81.8	-37.5	90.0	77.7	12.32	7.306		
2,900.0	2,900.0	2,898.8	2,898.8	6.4	6.4	-155.37	-81.8	-37.5	90.0	77.3	12.77	7.049 CC, ES		
3,000.0	3,000.0	2,997.3	2,997.2	6.6	6.6	-154.47	-82.0	-39.2	90.9	77.7	13.20	6.882		
3,100.0	3,100.0	3,095.5	3,095.3	6.8	6.8	-151.82	-82.4	-44.2	93.6	79.9	13.62	6.869 SF		
3,200.0	3,200.0	3,193.2	3,192.7	7.1	7.0	-147.75	-83.1	-52.5	98.5	84.5	14.04	7.016		
3,300.0	3,300.0	3,290.3	3,289.1	7.3	7.2	-142.76	-84.1	-64.0	106.1	91.7	14.46	7.341		
3,400.0	3,400.0	3,386.4	3,384.1	7.5	7.4	-137.39	-85.4	-78.6	117.0	102.1	14.88	7.862		
3,500.0	3,500.0	3,481.3	3,477.3	7.7	7.7	101.24	-86.9	-96.1	131.7	116.4	15.31	8.598		
3,600.0	3,599.8	3,574.0	3,567.8	7.9	7.9	107.36	-88.7	-116.1	151.3	135.6	15.69	9.643		
3,700.0	3,699.5	3,667.3	3,658.3	8.1	8.2	113.33	-90.6	-138.7	176.3	160.2	16.07	10.969		
3,800.0	3,798.7	3,761.3	3,749.4	8.3	8.5	118.61	-92.6	-161.7	204.8	188.3	16.44	12.455		
3,895.1	3,892.7	3,849.6	3,835.0	8.5	8.8	122.94	-94.5	-183.4	235.0	218.2	16.78	13.998		
3,900.0	3,897.5	3,854.1	3,839.4	8.5	8.8	123.17	-94.6	-184.5	236.6	219.8	16.80	14.079		
4,000.0	3,996.0	3,946.5	3,928.9	8.7	9.2	127.34	-96.6	-207.1	270.6	253.5	17.18	15.750		
4,100.0	4,094.5	4,038.8	4,018.4	9.0	9.5	130.60	-98.6	-229.7	305.7	288.1	17.58	17.395		
4,200.0	4,193.0	4,131.2	4,108.0	9.2	9.9	133.19	-100.5	-252.3	341.5	323.5	17.98	18.995		
4,300.0	4,291.5	4,223.5	4,197.5	9.5	10.3	135.30	-102.5	-274.9	377.8	359.4	18.39	20.541		
4,400.0	4,390.0	4,315.9	4,287.0	9.8	10.7	137.04	-104.4	-297.5	414.5	395.6	18.82	22.028		
4,500.0	4,488.5	4,408.2	4,376.5	10.0	11.0	138.50	-106.4	-320.1	451.4	432.2	19.25	23.454		
4,600.0	4,587.0	4,500.6	4,466.0	10.3	11.4	139.75	-108.4	-342.7	488.6	468.9	19.69	24.818		
4,700.0	4,685.5	4,592.9	4,555.6	10.6	11.9	140.81	-110.3	-365.3	525.9	505.8	20.13	26.121		
4,800.0	4,784.1	4,685.3	4,645.1	10.9	12.3	141.74	-112.3	-387.9	563.4	542.8	20.59	27.366		
4,900.0	4,882.6	4,777.6	4,734.6	11.2	12.7	142.55	-114.3	-410.5	601.0	579.9	21.05	28.554		
5,000.0	4,981.1	4,870.0	4,824.1	11.5	13.1	143.27	-116.2	-433.2	638.6	617.1	21.51	29.687		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,079.6	4,962.3	4,913.6	11.9	13.5	143.91	-118.2	-455.8	676.4	654.4	21.98	30.769		
5,200.0	5,178.1	5,054.7	5,003.2	12.2	14.0	144.48	-120.2	-478.4	714.2	691.7	22.46	31.800		
5,300.0	5,276.6	5,147.0	5,092.7	12.5	14.4	144.99	-122.1	-501.0	752.1	729.1	22.94	32.785		
5,400.0	5,375.1	5,239.4	5,182.2	12.9	14.9	145.46	-124.1	-523.6	790.0	766.6	23.42	33.725		
5,500.0	5,473.6	5,331.7	5,271.7	13.2	15.3	145.88	-126.1	-546.2	827.9	804.0	23.91	34.622		
5,577.5	5,550.0	5,403.3	5,341.1	13.5	15.7	146.18	-127.6	-563.7	857.4	833.1	24.30	35.290		
5,600.0	5,572.2	5,424.1	5,361.3	13.5	15.8	155.72	-128.0	-568.8	865.9	841.5	24.41	35.472		
5,650.0	5,621.7	5,470.5	5,406.3	13.7	16.0	-176.10	-129.0	-580.2	884.5	859.8	24.67	35.853		
5,700.0	5,671.2	5,517.0	5,451.3	13.8	16.2	-145.73	-130.0	-591.5	902.5	877.6	24.93	36.209		
5,750.0	5,720.6	5,563.2	5,496.1	13.9	16.4	-124.25	-131.0	-602.8	920.0	894.8	25.17	36.547		
5,800.0	5,769.5	5,602.7	5,534.4	14.0	16.6	-111.25	-131.8	-612.5	936.9	911.5	25.39	36.899		
5,850.0	5,817.8	5,624.9	5,555.8	14.1	16.7	-102.85	-132.3	-618.3	954.0	928.5	25.56	37.322		
5,900.0	5,865.1	5,650.0	5,579.8	14.2	16.9	-97.18	-133.0	-625.6	971.9	946.1	25.73	37.771		
5,950.0	5,911.3	5,650.0	5,579.8	14.2	16.9	-92.33	-133.0	-625.6	990.4	964.5	25.84	38.328		
6,000.0	5,956.1	5,678.1	5,606.4	14.3	17.1	-89.21	-133.8	-634.8	1,009.2	983.2	26.01	38.805		
6,050.0	5,999.4	5,700.0	5,626.8	14.3	17.2	-86.55	-134.5	-642.6	1,028.7	1,002.6	26.16	39.332		
6,100.0	6,040.8	5,700.0	5,626.8	14.3	17.2	-83.51	-134.5	-642.6	1,048.8	1,022.6	26.25	39.950		
6,150.0	6,080.3	5,722.5	5,647.5	14.4	17.4	-81.60	-135.2	-651.4	1,069.2	1,042.8	26.40	40.495		
6,200.0	6,117.5	5,750.0	5,672.4	14.4	17.6	-80.16	-136.2	-662.9	1,090.4	1,063.9	26.57	41.038		
6,250.0	6,152.4	5,750.0	5,672.4	14.4	17.6	-77.72	-136.2	-662.9	1,111.5	1,084.9	26.67	41.685		
6,300.0	6,184.8	5,750.0	5,672.4	14.5	17.6	-75.36	-136.2	-662.9	1,133.3	1,106.5	26.75	42.363		
6,350.0	6,214.4	5,766.8	5,687.5	14.6	17.7	-73.89	-136.9	-670.4	1,155.2	1,128.3	26.90	42.942		
6,400.0	6,241.2	5,775.2	5,694.9	14.7	17.8	-72.12	-137.2	-674.3	1,177.4	1,150.4	27.02	43.575		
6,405.7	6,244.1	5,776.1	5,695.7	14.7	17.8	-71.92	-137.2	-674.7	1,179.9	1,152.9	27.03	43.648		
6,500.0	6,291.2	5,800.0	5,716.6	15.1	18.0	-73.06	-138.3	-686.3	1,224.8	1,197.1	27.75	44.130		
6,555.7	6,319.1	5,800.0	5,716.6	15.5	18.0	-73.06	-138.3	-686.3	1,253.5	1,225.4	28.17	44.500		
6,600.0	6,339.7	5,800.0	5,716.6	15.9	18.0	-70.40	-138.3	-686.3	1,277.2	1,248.9	28.29	45.144		
6,650.0	6,359.3	5,800.0	5,716.6	16.3	18.0	-67.43	-138.3	-686.3	1,304.1	1,275.7	28.36	45.979		
6,700.0	6,374.8	5,800.0	5,716.6	16.8	18.0	-64.52	-138.3	-686.3	1,330.9	1,302.6	28.36	46.924		
6,750.0	6,386.1	5,817.1	5,731.3	17.3	18.2	-62.57	-139.0	-695.0	1,357.2	1,328.8	28.47	47.668		
6,798.7	6,393.0	5,818.5	5,732.5	17.9	18.2	-60.02	-139.1	-695.7	1,382.7	1,354.3	28.41	48.665		
6,800.0	6,393.1	5,818.5	5,732.5	17.9	18.2	-60.02	-139.1	-695.7	1,383.3	1,354.9	28.43	48.666		
6,900.0	6,403.1	5,820.0	5,733.7	19.1	18.2	-60.09	-139.1	-696.4	1,437.7	1,408.2	29.51	48.725		
7,000.0	6,413.0	5,821.4	5,734.9	20.5	18.2	-60.16	-139.2	-697.2	1,496.8	1,466.1	30.69	48.775		
7,100.0	6,422.9	5,822.8	5,736.1	21.9	18.2	-60.23	-139.3	-697.9	1,560.1	1,528.1	31.95	48.826		
7,200.0	6,432.9	5,824.2	5,737.3	23.4	18.2	-60.29	-139.3	-698.7	1,627.0	1,593.7	33.28	48.885		
7,300.0	6,442.8	5,825.6	5,738.5	24.9	18.2	-60.36	-139.4	-699.4	1,697.2	1,662.5	34.67	48.955		
7,400.0	6,452.7	5,826.9	5,739.7	26.5	18.3	-60.43	-139.5	-700.1	1,770.3	1,734.2	36.10	49.036		
7,500.0	6,462.7	5,828.3	5,740.8	28.2	18.3	-60.49	-139.5	-700.8	1,845.9	1,808.3	37.57	49.127		
7,600.0	6,472.6	8,186.1	6,499.8	29.8	44.6	-90.85	1,310.4	-1,583.6	1,910.8	1,849.3	61.50	31.070		
7,700.0	6,482.5	8,286.1	6,509.7	31.5	45.7	-90.85	1,410.0	-1,583.6	1,910.7	1,845.8	64.87	29.456		
7,800.0	6,492.5	8,386.1	6,519.7	33.3	46.9	-90.85	1,509.5	-1,583.6	1,910.5	1,842.3	68.28	27.981		
7,900.0	6,502.4	8,486.1	6,529.6	35.0	48.1	-90.85	1,609.0	-1,583.6	1,910.4	1,838.7	71.74	26.630		
8,000.0	6,512.3	8,586.1	6,539.5	36.8	49.3	-90.85	1,708.5	-1,583.5	1,910.3	1,835.0	75.24	25.390		
8,100.0	6,522.3	8,686.1	6,549.5	38.5	50.6	-90.85	1,808.0	-1,583.5	1,910.1	1,831.4	78.76	24.251		
8,200.0	6,532.2	8,786.1	6,559.4	40.3	52.0	-90.85	1,907.5	-1,583.5	1,910.0	1,827.7	82.32	23.202		
8,300.0	6,542.1	8,886.1	6,569.3	42.1	53.4	-90.85	2,007.0	-1,583.5	1,909.8	1,823.9	85.90	22.233		
8,400.0	6,552.1	8,986.1	6,579.3	43.9	54.8	-90.85	2,106.5	-1,583.5	1,909.7	1,820.2	89.50	21.337		
8,500.0	6,562.0	9,086.1	6,589.2	45.8	56.3	-90.85	2,206.0	-1,583.5	1,909.6	1,816.4	93.12	20.505		
8,600.0	6,571.9	9,186.1	6,599.1	47.6	57.7	-90.85	2,305.5	-1,583.5	1,909.4	1,812.6	96.76	19.733		
8,700.0	6,581.9	9,286.1	6,609.1	49.4	59.3	-90.85	2,405.0	-1,583.5	1,909.3	1,808.9	100.42	19.013		
8,800.0	6,591.8	9,386.1	6,619.0	51.3	60.8	-90.85	2,504.5	-1,583.5	1,909.1	1,805.0	104.08	18.342		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.0	6,601.7	9,486.1	6,628.9	53.1	62.4	-90.85	2,604.0	-1,583.5	1,909.0	1,801.2	107.76	17.714		
9,000.0	6,611.7	9,586.1	6,638.9	55.0	63.9	-90.85	2,703.5	-1,583.5	1,908.8	1,797.4	111.46	17.127		
9,100.0	6,621.6	9,686.1	6,648.8	56.8	65.5	-90.85	2,803.0	-1,583.5	1,908.7	1,793.5	115.16	16.575		
9,200.0	6,631.5	9,786.1	6,658.7	58.7	67.2	-90.85	2,902.5	-1,583.5	1,908.6	1,789.7	118.87	16.056		
9,300.0	6,641.4	9,886.1	6,668.6	60.5	68.8	-90.85	3,002.0	-1,583.5	1,908.4	1,785.8	122.58	15.568		
9,400.0	6,651.4	9,986.1	6,678.6	62.4	70.5	-90.85	3,101.5	-1,583.4	1,908.3	1,782.0	126.31	15.108		
9,500.0	6,661.3	10,086.1	6,688.5	64.3	72.1	-90.85	3,201.1	-1,583.4	1,908.1	1,778.1	130.04	14.673		
9,600.0	6,671.2	10,186.1	6,698.4	66.1	73.8	-90.85	3,300.6	-1,583.4	1,908.0	1,774.2	133.78	14.262		
9,700.0	6,681.2	10,286.1	6,708.4	68.0	75.5	-90.85	3,400.1	-1,583.4	1,907.8	1,770.3	137.52	13.873		
9,800.0	6,691.1	10,386.1	6,718.3	69.9	77.2	-90.85	3,499.6	-1,583.4	1,907.7	1,766.4	141.27	13.504		
9,900.0	6,701.0	10,486.1	6,728.2	71.8	78.9	-90.85	3,599.1	-1,583.4	1,907.6	1,762.5	145.03	13.153		
10,000.0	6,711.0	10,586.1	6,738.2	73.7	80.7	-90.85	3,698.6	-1,583.4	1,907.4	1,758.6	148.79	12.820		
10,100.0	6,720.9	10,686.1	6,748.1	75.6	82.4	-90.85	3,798.1	-1,583.4	1,907.3	1,754.7	152.55	12.503		
10,200.0	6,730.8	10,786.1	6,758.0	77.4	84.2	-90.85	3,897.6	-1,583.4	1,907.1	1,750.8	156.32	12.201		
10,300.0	6,740.8	10,886.1	6,768.0	79.3	85.9	-90.85	3,997.1	-1,583.4	1,907.0	1,746.9	160.09	11.912		
10,400.0	6,750.7	10,986.1	6,777.9	81.2	87.7	-90.85	4,096.6	-1,583.4	1,906.9	1,743.0	163.86	11.637		
10,500.0	6,760.6	11,086.1	6,787.8	83.1	89.4	-90.85	4,196.1	-1,583.4	1,906.7	1,739.1	167.64	11.374		
10,600.0	6,770.6	11,186.1	6,797.8	85.0	91.2	-90.85	4,295.6	-1,583.4	1,906.6	1,735.2	171.42	11.122		
10,700.0	6,780.5	11,286.1	6,807.7	86.9	93.0	-90.85	4,395.1	-1,583.4	1,906.4	1,731.2	175.20	10.881		
10,800.0	6,790.4	11,386.1	6,817.6	88.8	94.8	-90.85	4,494.6	-1,583.3	1,906.3	1,727.3	178.98	10.651		
10,900.0	6,800.4	11,486.1	6,827.6	90.7	96.6	-90.85	4,594.1	-1,583.3	1,906.1	1,723.4	182.77	10.429		
11,000.0	6,810.3	11,586.1	6,837.5	92.6	98.4	-90.85	4,693.6	-1,583.3	1,906.0	1,719.4	186.56	10.216		
11,100.0	6,820.2	11,686.1	6,847.4	94.5	100.2	-90.85	4,793.1	-1,583.3	1,905.9	1,715.5	190.35	10.012		
11,200.0	6,830.2	11,786.1	6,857.4	96.4	102.0	-90.85	4,892.6	-1,583.3	1,905.7	1,711.6	194.15	9.816		
11,300.0	6,840.1	11,886.1	6,867.3	98.3	103.8	-90.85	4,992.1	-1,583.3	1,905.6	1,707.6	197.94	9.627		
11,400.0	6,850.0	11,986.1	6,877.2	100.2	105.6	-90.85	5,091.7	-1,583.3	1,905.4	1,703.7	201.74	9.445		
11,500.0	6,860.0	12,086.1	6,887.2	102.1	107.5	-90.85	5,191.2	-1,583.3	1,905.3	1,699.8	205.54	9.270		
11,600.0	6,869.9	12,186.1	6,897.1	104.0	109.3	-90.85	5,290.7	-1,583.3	1,905.1	1,695.8	209.34	9.101		
11,700.0	6,879.8	12,286.1	6,907.0	105.9	111.1	-90.85	5,390.2	-1,583.3	1,905.0	1,691.9	213.14	8.938		
11,800.0	6,889.7	12,386.1	6,916.9	107.8	112.9	-90.85	5,489.7	-1,583.3	1,904.9	1,687.9	216.95	8.780		
11,900.0	6,899.7	12,486.1	6,926.9	109.7	114.8	-90.85	5,589.2	-1,583.3	1,904.7	1,684.0	220.75	8.628		
12,000.0	6,909.6	12,586.1	6,936.8	111.6	116.6	-90.85	5,688.7	-1,583.3	1,904.6	1,680.0	224.56	8.481		
12,100.0	6,919.5	12,686.1	6,946.7	113.5	118.4	-90.85	5,788.2	-1,583.3	1,904.4	1,676.1	228.37	8.339		
12,200.0	6,929.5	12,786.1	6,956.7	115.4	120.3	-90.85	5,887.7	-1,583.2	1,904.3	1,672.1	232.18	8.202		
12,251.7	6,934.6	12,837.8	6,961.8	116.4	121.2	-90.85	5,939.1	-1,583.2	1,904.2	1,670.1	234.15	8.133		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 3-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.41	-68.2	-31.2	75.0					
100.0	100.0	98.8	98.8	0.1	0.1	-155.41	-68.2	-31.2	75.0	74.8	0.19	399.814		
200.0	200.0	198.8	198.8	0.3	0.3	-155.41	-68.2	-31.2	75.0	74.4	0.64	118.044		
300.0	300.0	298.8	298.8	0.5	0.5	-155.41	-68.2	-31.2	75.0	73.9	1.09	69.144		
400.0	400.0	398.8	398.8	0.8	0.8	-155.41	-68.2	-31.2	75.0	73.5	1.53	48.891		
500.0	500.0	498.8	498.8	1.0	1.0	-155.41	-68.2	-31.2	75.0	73.0	1.98	37.815		
600.0	600.0	598.8	598.8	1.2	1.2	-155.41	-68.2	-31.2	75.0	72.6	2.43	30.830		
700.0	700.0	698.8	698.8	1.4	1.4	-155.41	-68.2	-31.2	75.0	72.2	2.88	26.023		
800.0	800.0	798.8	798.8	1.7	1.7	-155.41	-68.2	-31.2	75.0	71.7	3.33	22.513		
900.0	900.0	898.8	898.8	1.9	1.9	-155.41	-68.2	-31.2	75.0	71.3	3.78	19.838		
1,000.0	1,000.0	998.8	998.8	2.1	2.1	-155.41	-68.2	-31.2	75.0	70.8	4.23	17.730		
1,100.0	1,100.0	1,098.8	1,098.8	2.3	2.3	-155.41	-68.2	-31.2	75.0	70.4	4.68	16.028		
1,200.0	1,200.0	1,198.8	1,198.8	2.6	2.6	-155.41	-68.2	-31.2	75.0	69.9	5.13	14.624		
1,300.0	1,300.0	1,298.8	1,298.8	2.8	2.8	-155.41	-68.2	-31.2	75.0	69.5	5.58	13.446		
1,400.0	1,400.0	1,398.8	1,398.8	3.0	3.0	-155.41	-68.2	-31.2	75.0	69.0	6.03	12.443		
1,500.0	1,500.0	1,498.8	1,498.8	3.2	3.2	-155.41	-68.2	-31.2	75.0	68.6	6.48	11.580		
1,600.0	1,600.0	1,598.8	1,598.8	3.5	3.5	-155.41	-68.2	-31.2	75.0	68.1	6.93	10.829		
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	-155.41	-68.2	-31.2	75.0	67.7	7.38	10.169		
1,800.0	1,800.0	1,798.8	1,798.8	3.9	3.9	-155.41	-68.2	-31.2	75.0	67.2	7.83	9.585		
1,900.0	1,900.0	1,898.8	1,898.8	4.1	4.1	-155.41	-68.2	-31.2	75.0	66.8	8.28	9.065		
2,000.0	2,000.0	1,998.8	1,998.8	4.4	4.4	-155.41	-68.2	-31.2	75.0	66.3	8.73	8.598		
2,100.0	2,100.0	2,098.8	2,098.8	4.6	4.6	-155.41	-68.2	-31.2	75.0	65.9	9.18	8.176		
2,200.0	2,200.0	2,198.8	2,198.8	4.8	4.8	-155.41	-68.2	-31.2	75.0	65.4	9.63	7.795		
2,300.0	2,300.0	2,298.8	2,298.8	5.0	5.0	-155.41	-68.2	-31.2	75.0	65.0	10.08	7.447		
2,400.0	2,400.0	2,398.8	2,398.8	5.3	5.3	-155.41	-68.2	-31.2	75.0	64.5	10.53	7.129		
2,500.0	2,500.0	2,498.8	2,498.8	5.5	5.5	-155.41	-68.2	-31.2	75.0	64.1	10.97	6.837		
2,600.0	2,600.0	2,598.8	2,598.8	5.7	5.7	-155.41	-68.2	-31.2	75.0	63.6	11.42	6.568		
2,700.0	2,700.0	2,698.8	2,698.8	5.9	5.9	-155.41	-68.2	-31.2	75.0	63.2	11.87	6.319		
2,800.0	2,800.0	2,798.8	2,798.8	6.2	6.2	-155.41	-68.2	-31.2	75.0	62.7	12.32	6.089		
2,900.0	2,900.0	2,898.8	2,898.8	6.4	6.4	-155.41	-68.2	-31.2	75.0	62.3	12.77	5.874		
3,000.0	3,000.0	2,998.8	2,998.8	6.6	6.6	-155.41	-68.2	-31.2	75.0	61.8	13.22	5.675		
3,100.0	3,100.0	3,098.8	3,098.8	6.8	6.8	-155.41	-68.2	-31.2	75.0	61.4	13.67	5.488		
3,135.1	3,135.1	3,133.9	3,133.9	6.9	6.9	-155.41	-68.2	-31.2	75.0	61.2	13.83	5.425 CC		
3,200.0	3,200.0	3,198.1	3,198.1	7.1	7.0	-155.16	-68.3	-31.6	75.3	61.2	14.11	5.333 ES		
3,300.0	3,300.0	3,296.5	3,296.5	7.3	7.2	-153.11	-68.8	-34.9	77.2	62.7	14.53	5.317 SF		
3,400.0	3,400.0	3,394.6	3,394.3	7.5	7.4	-149.31	-69.9	-41.5	81.5	66.5	14.94	5.452		
3,500.0	3,500.0	3,492.0	3,491.2	7.7	7.6	89.56	-71.6	-51.3	88.4	73.0	15.35	5.759		
3,600.0	3,599.8	3,588.0	3,586.3	7.9	7.9	97.54	-73.7	-64.2	99.3	83.5	15.72	6.312		
3,700.0	3,699.5	3,682.1	3,679.1	8.1	8.1	105.99	-76.3	-79.8	115.6	99.5	16.10	7.182		
3,800.0	3,798.7	3,773.9	3,769.0	8.3	8.3	113.71	-79.4	-98.0	138.5	122.0	16.47	8.410		
3,895.1	3,892.7	3,858.6	3,851.4	8.5	8.6	119.85	-82.6	-117.2	166.5	149.7	16.81	9.906		
3,900.0	3,897.5	3,862.9	3,855.6	8.5	8.6	120.16	-82.7	-118.3	168.1	151.3	16.83	9.991		
4,000.0	3,996.0	3,949.4	3,939.0	8.7	8.8	125.45	-86.4	-140.5	203.2	186.0	17.20	11.820		
4,100.0	4,094.5	4,039.9	4,026.0	9.0	9.2	129.45	-90.6	-165.4	241.3	223.7	17.58	13.727		
4,200.0	4,193.0	4,131.2	4,113.6	9.2	9.5	132.39	-94.8	-190.5	280.2	262.2	17.97	15.589		
4,300.0	4,291.5	4,222.5	4,201.3	9.5	9.9	134.62	-99.0	-215.7	319.5	301.2	18.38	17.386		
4,400.0	4,390.0	4,313.8	4,289.0	9.8	10.2	136.37	-103.2	-240.8	359.2	340.4	18.80	19.112		
4,500.0	4,488.5	4,405.1	4,376.7	10.0	10.6	137.77	-107.3	-265.9	399.1	379.9	19.22	20.764		
4,600.0	4,587.0	4,496.4	4,464.3	10.3	11.0	138.92	-111.5	-291.0	439.2	419.5	19.66	22.342		
4,700.0	4,685.5	4,587.7	4,552.0	10.6	11.4	139.87	-115.7	-316.2	479.4	459.3	20.10	23.847		
4,800.0	4,784.1	4,679.0	4,639.7	10.9	11.9	140.68	-119.9	-341.3	519.7	499.1	20.56	25.281		
4,900.0	4,882.6	4,770.3	4,727.3	11.2	12.3	141.38	-124.1	-366.4	560.0	539.0	21.02	26.648		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 3-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,981.1	4,861.6	4,815.0	11.5	12.8	141.98	-128.3	-391.5	600.5	579.0	21.48	27.950		
5,100.0	5,079.6	4,952.9	4,902.7	11.9	13.2	142.50	-132.5	-416.7	640.9	619.0	21.96	29.190		
5,200.0	5,178.1	5,044.1	4,990.3	12.2	13.7	142.97	-136.7	-441.8	681.5	659.0	22.44	30.372		
5,300.0	5,276.6	5,135.4	5,078.0	12.5	14.1	143.38	-140.8	-466.9	722.0	699.1	22.92	31.497		
5,400.0	5,375.1	5,226.7	5,165.7	12.9	14.6	143.74	-145.0	-492.0	762.6	739.2	23.41	32.570		
5,500.0	5,473.6	5,318.0	5,253.4	13.2	15.1	144.07	-149.2	-517.2	803.2	779.3	23.91	33.592		
5,577.5	5,550.0	5,388.8	5,321.3	13.5	15.5	144.31	-152.5	-536.7	834.7	810.4	24.30	34.352		
5,600.0	5,572.2	5,409.4	5,341.0	13.5	15.6	153.89	-153.4	-542.3	843.8	819.3	24.41	34.560		
5,650.0	5,621.7	5,455.2	5,385.0	13.7	15.8	-177.83	-155.5	-554.9	863.7	839.1	24.68	35.002		
5,700.0	5,671.2	5,500.9	5,429.0	13.8	16.1	-147.36	-157.6	-567.5	883.3	858.4	24.94	35.421		
5,750.0	5,720.6	5,546.4	5,472.7	13.9	16.3	-125.77	-159.7	-580.0	902.4	877.2	25.19	35.824		
5,800.0	5,769.5	5,591.4	5,515.9	14.0	16.5	-112.76	-161.8	-592.4	921.0	895.6	25.43	36.220		
5,850.0	5,817.8	5,635.7	5,558.4	14.1	16.8	-104.74	-163.8	-604.6	939.2	913.6	25.65	36.613		
5,900.0	5,865.1	5,679.1	5,600.1	14.2	17.0	-99.50	-165.8	-616.5	957.0	931.2	25.86	37.009		
5,950.0	5,911.3	5,721.3	5,640.6	14.2	17.2	-95.89	-167.7	-628.2	974.5	948.4	26.05	37.407		
6,000.0	5,956.1	5,759.3	5,677.1	14.3	17.4	-93.19	-169.0	-638.7	991.8	965.6	26.22	37.819		
6,050.0	5,999.4	5,796.7	5,713.0	14.3	17.6	-91.09	-168.3	-649.3	1,009.1	982.7	26.39	38.236		
6,100.0	6,040.8	5,835.0	5,749.5	14.3	17.8	-89.44	-165.7	-660.3	1,026.3	999.7	26.55	38.650		
6,150.0	6,080.3	5,874.2	5,786.7	14.4	18.0	-88.12	-160.8	-671.8	1,043.3	1,016.6	26.72	39.050		
6,200.0	6,117.5	5,914.6	5,824.5	14.4	18.2	-87.08	-153.7	-683.9	1,060.2	1,033.3	26.89	39.423		
6,250.0	6,152.4	5,956.3	5,863.1	14.4	18.4	-86.25	-143.9	-696.5	1,076.8	1,049.7	27.08	39.758		
6,300.0	6,184.8	5,999.6	5,902.4	14.5	18.6	-85.62	-131.4	-709.6	1,093.1	1,065.8	27.30	40.039		
6,350.0	6,214.4	6,044.8	5,942.4	14.6	18.8	-85.16	-115.7	-723.4	1,109.1	1,081.5	27.56	40.250		
6,400.0	6,241.2	6,092.1	5,983.1	14.7	19.1	-84.87	-96.4	-737.9	1,124.6	1,096.8	27.86	40.370		
6,405.7	6,244.1	6,097.6	5,987.8	14.7	19.1	-84.84	-94.0	-739.6	1,126.4	1,098.5	27.90	40.377		
6,500.0	6,291.2	6,197.5	6,068.5	15.1	19.6	-87.30	-43.7	-769.8	1,155.3	1,126.6	28.69	40.262		
6,555.7	6,319.1	6,263.8	6,117.8	15.5	20.0	-88.51	-3.9	-789.5	1,172.1	1,142.9	29.29	40.016		
6,600.0	6,339.7	6,319.5	6,156.1	15.9	20.3	-88.03	33.2	-805.6	1,185.1	1,155.3	29.86	39.690		
6,650.0	6,359.3	6,384.7	6,197.1	16.3	20.7	-87.56	80.4	-823.8	1,199.2	1,168.6	30.61	39.180		
6,700.0	6,374.8	6,452.6	6,235.1	16.8	21.1	-87.20	133.6	-841.9	1,212.4	1,180.9	31.48	38.511		
6,750.0	6,386.1	6,505.1	6,261.6	17.3	21.5	-86.70	176.9	-855.4	1,225.0	1,192.6	32.37	37.838		
6,798.7	6,393.0	6,548.4	6,283.3	17.9	21.8	-86.26	212.8	-866.5	1,237.2	1,203.9	33.27	37.186		
6,800.0	6,393.1	6,549.5	6,283.8	17.9	21.8	-86.28	213.7	-866.7	1,237.5	1,204.2	33.29	37.169		
6,900.0	6,403.1	6,983.8	6,416.4	19.1	25.7	-90.66	615.1	-923.4	1,251.4	1,212.1	39.29	31.848		
7,000.0	6,413.0	7,083.8	6,426.3	20.5	26.8	-90.66	714.7	-923.4	1,251.3	1,209.3	41.98	29.805		
7,100.0	6,422.9	7,183.8	6,436.3	21.9	27.9	-90.66	814.2	-923.4	1,251.2	1,206.3	44.84	27.906		
7,200.0	6,432.9	7,283.8	6,446.2	23.4	29.1	-90.66	913.7	-923.4	1,251.0	1,203.2	47.83	26.157		
7,300.0	6,442.8	7,383.8	6,456.1	24.9	30.4	-90.66	1,013.2	-923.4	1,250.9	1,200.0	50.93	24.560		
7,400.0	6,452.7	7,483.8	6,466.1	26.5	31.8	-90.66	1,112.7	-923.4	1,250.8	1,196.6	54.13	23.105		
7,500.0	6,462.7	7,583.8	6,476.0	28.2	33.2	-90.66	1,212.2	-923.4	1,250.6	1,193.2	57.41	21.783		
7,600.0	6,472.6	7,683.8	6,485.9	29.8	34.7	-90.66	1,311.7	-923.4	1,250.5	1,189.7	60.76	20.581		
7,700.0	6,482.5	7,783.8	6,495.9	31.5	36.2	-90.66	1,411.2	-923.4	1,250.4	1,186.2	64.16	19.488		
7,800.0	6,492.5	7,883.8	6,505.8	33.3	37.8	-90.66	1,510.7	-923.4	1,250.2	1,182.6	67.61	18.492		
7,900.0	6,502.4	7,983.8	6,515.7	35.0	39.4	-90.66	1,610.2	-923.4	1,250.1	1,179.0	71.10	17.582		
8,000.0	6,512.3	8,083.8	6,525.7	36.8	41.0	-90.66	1,709.7	-923.4	1,249.9	1,175.3	74.62	16.750		
8,100.0	6,522.3	8,183.8	6,535.6	38.5	42.7	-90.66	1,809.2	-923.4	1,249.8	1,171.6	78.18	15.987		
8,200.0	6,532.2	8,283.8	6,545.5	40.3	44.3	-90.66	1,908.7	-923.4	1,249.7	1,167.9	81.76	15.285		
8,300.0	6,542.1	8,383.8	6,555.5	42.1	46.0	-90.66	2,008.2	-923.4	1,249.5	1,164.2	85.36	14.638		
8,400.0	6,552.1	8,483.8	6,565.4	43.9	47.7	-90.66	2,107.7	-923.4	1,249.4	1,160.4	88.98	14.041		
8,500.0	6,562.0	8,583.8	6,575.3	45.8	49.4	-90.66	2,207.2	-923.4	1,249.3	1,156.7	92.62	13.488		
8,600.0	6,571.9	8,683.8	6,585.3	47.6	51.2	-90.66	2,306.7	-923.4	1,249.1	1,152.9	96.28	12.974		
8,700.0	6,581.9	8,783.8	6,595.2	49.4	52.9	-90.66	2,406.2	-923.4	1,249.0	1,149.1	99.95	12.496		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 3-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.0	6,591.8	8,883.8	6,605.1	51.3	54.7	-90.66	2,505.7	-923.4	1,248.9	1,145.2	103.63	12.051		
8,900.0	6,601.7	8,983.8	6,615.1	53.1	56.5	-90.66	2,605.3	-923.4	1,248.7	1,141.4	107.33	11.635		
9,000.0	6,611.7	9,083.8	6,625.0	55.0	58.2	-90.66	2,704.8	-923.4	1,248.6	1,137.6	111.03	11.245		
9,100.0	6,621.6	9,183.8	6,634.9	56.8	60.0	-90.66	2,804.3	-923.4	1,248.5	1,133.7	114.75	10.880		
9,200.0	6,631.5	9,283.8	6,644.9	58.7	61.8	-90.66	2,903.8	-923.4	1,248.3	1,129.9	118.47	10.537		
9,300.0	6,641.4	9,383.8	6,654.8	60.5	63.6	-90.66	3,003.3	-923.4	1,248.2	1,126.0	122.20	10.215		
9,400.0	6,651.4	9,483.8	6,664.7	62.4	65.5	-90.66	3,102.8	-923.4	1,248.1	1,122.1	125.93	9.910		
9,500.0	6,661.3	9,583.8	6,674.6	64.3	67.3	-90.66	3,202.3	-923.4	1,247.9	1,118.3	129.68	9.623		
9,600.0	6,671.2	9,683.8	6,684.6	66.1	69.1	-90.66	3,301.8	-923.4	1,247.8	1,114.4	133.43	9.352		
9,700.0	6,681.2	9,783.8	6,694.5	68.0	70.9	-90.66	3,401.3	-923.4	1,247.7	1,110.5	137.18	9.095		
9,800.0	6,691.1	9,883.8	6,704.4	69.9	72.8	-90.66	3,500.8	-923.4	1,247.5	1,106.6	140.94	8.852		
9,900.0	6,701.0	9,983.8	6,714.4	71.8	74.6	-90.66	3,600.3	-923.4	1,247.4	1,102.7	144.70	8.621		
10,000.0	6,711.0	10,083.8	6,724.3	73.7	76.4	-90.66	3,699.8	-923.4	1,247.3	1,098.8	148.47	8.401		
10,100.0	6,720.9	10,183.8	6,734.2	75.6	78.3	-90.66	3,799.3	-923.4	1,247.1	1,094.9	152.24	8.192		
10,200.0	6,730.8	10,283.8	6,744.2	77.4	80.1	-90.66	3,898.8	-923.4	1,247.0	1,091.0	156.01	7.993		
10,300.0	6,740.8	10,383.8	6,754.1	79.3	82.0	-90.66	3,998.3	-923.4	1,246.9	1,087.1	159.79	7.803		
10,400.0	6,750.7	10,483.8	6,764.0	81.2	83.8	-90.66	4,097.8	-923.4	1,246.7	1,083.2	163.57	7.622		
10,500.0	6,760.6	10,583.8	6,774.0	83.1	85.7	-90.66	4,197.3	-923.4	1,246.6	1,079.2	167.35	7.449		
10,600.0	6,770.6	10,683.8	6,783.9	85.0	87.6	-90.66	4,296.8	-923.4	1,246.5	1,075.3	171.14	7.283		
10,700.0	6,780.5	10,783.8	6,793.8	86.9	89.4	-90.66	4,396.4	-923.4	1,246.3	1,071.4	174.93	7.125		
10,800.0	6,790.4	10,883.8	6,803.8	88.8	91.3	-90.66	4,495.9	-923.4	1,246.2	1,067.5	178.72	6.973		
10,900.0	6,800.4	10,983.8	6,813.7	90.7	93.2	-90.66	4,595.4	-923.4	1,246.1	1,063.5	182.51	6.827		
11,000.0	6,810.3	11,083.8	6,823.6	92.6	95.0	-90.66	4,694.9	-923.4	1,245.9	1,059.6	186.31	6.688		
11,100.0	6,820.2	11,183.8	6,833.6	94.5	96.9	-90.66	4,794.4	-923.4	1,245.8	1,055.7	190.10	6.553		
11,200.0	6,830.2	11,283.8	6,843.5	96.4	98.8	-90.66	4,893.9	-923.4	1,245.7	1,051.8	193.90	6.424		
11,300.0	6,840.1	11,383.8	6,853.4	98.3	100.7	-90.66	4,993.4	-923.4	1,245.5	1,047.8	197.70	6.300		
11,400.0	6,850.0	11,483.8	6,863.4	100.2	102.5	-90.66	5,092.9	-923.4	1,245.4	1,043.9	201.50	6.180		
11,500.0	6,860.0	11,583.8	6,873.3	102.1	104.4	-90.66	5,192.4	-923.4	1,245.3	1,039.9	205.31	6.065		
11,600.0	6,869.9	11,683.8	6,883.2	104.0	106.3	-90.66	5,291.9	-923.4	1,245.1	1,036.0	209.11	5.954		
11,700.0	6,879.8	11,783.8	6,893.1	105.9	108.2	-90.66	5,391.4	-923.4	1,245.0	1,032.1	212.92	5.847		
11,800.0	6,889.7	11,883.8	6,903.1	107.8	110.1	-90.66	5,490.9	-923.4	1,244.9	1,028.1	216.73	5.744		
11,900.0	6,899.7	11,983.8	6,913.0	109.7	112.0	-90.66	5,590.4	-923.4	1,244.7	1,024.2	220.54	5.644		
12,000.0	6,909.6	12,083.8	6,922.9	111.6	113.8	-90.66	5,689.9	-923.4	1,244.6	1,020.2	224.35	5.548		
12,100.0	6,919.5	12,183.8	6,932.9	113.5	115.7	-90.66	5,789.4	-923.4	1,244.4	1,016.3	228.16	5.454		
12,200.0	6,929.5	12,283.8	6,942.8	115.4	117.6	-90.66	5,888.9	-923.4	1,244.3	1,012.3	231.97	5.364		
12,251.7	6,934.6	12,335.5	6,947.9	116.4	118.5	-90.66	5,940.4	-923.4	1,244.2	1,010.4	233.81	5.322		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 4-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.32	-54.5	-25.1	60.0					
100.0	100.0	98.8	98.8	0.1	0.1	-155.32	-54.5	-25.1	60.0	59.8	0.19	319.776		
200.0	200.0	198.8	198.8	0.3	0.3	-155.32	-54.5	-25.1	60.0	59.4	0.64	94.413		
300.0	300.0	298.8	298.8	0.5	0.5	-155.32	-54.5	-25.1	60.0	58.9	1.09	55.303		
400.0	400.0	398.8	398.8	0.8	0.8	-155.32	-54.5	-25.1	60.0	58.5	1.53	39.104		
500.0	500.0	498.8	498.8	1.0	1.0	-155.32	-54.5	-25.1	60.0	58.0	1.98	30.245		
600.0	600.0	598.8	598.8	1.2	1.2	-155.32	-54.5	-25.1	60.0	57.6	2.43	24.658		
700.0	700.0	698.8	698.8	1.4	1.4	-155.32	-54.5	-25.1	60.0	57.1	2.88	20.814		
800.0	800.0	798.8	798.8	1.7	1.7	-155.32	-54.5	-25.1	60.0	56.7	3.33	18.007		
900.0	900.0	898.8	898.8	1.9	1.9	-155.32	-54.5	-25.1	60.0	56.2	3.78	15.866		
1,000.0	1,000.0	998.8	998.8	2.1	2.1	-155.32	-54.5	-25.1	60.0	55.8	4.23	14.181		
1,100.0	1,100.0	1,098.8	1,098.8	2.3	2.3	-155.32	-54.5	-25.1	60.0	55.3	4.68	12.819		
1,200.0	1,200.0	1,198.8	1,198.8	2.6	2.6	-155.32	-54.5	-25.1	60.0	54.9	5.13	11.696		
1,300.0	1,300.0	1,298.8	1,298.8	2.8	2.8	-155.32	-54.5	-25.1	60.0	54.4	5.58	10.754		
1,400.0	1,400.0	1,398.8	1,398.8	3.0	3.0	-155.32	-54.5	-25.1	60.0	54.0	6.03	9.952		
1,500.0	1,500.0	1,498.8	1,498.8	3.2	3.2	-155.32	-54.5	-25.1	60.0	53.5	6.48	9.262		
1,600.0	1,600.0	1,598.8	1,598.8	3.5	3.5	-155.32	-54.5	-25.1	60.0	53.1	6.93	8.661		
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	-155.32	-54.5	-25.1	60.0	52.6	7.38	8.133		
1,800.0	1,800.0	1,798.8	1,798.8	3.9	3.9	-155.32	-54.5	-25.1	60.0	52.2	7.83	7.666		
1,900.0	1,900.0	1,898.8	1,898.8	4.1	4.1	-155.32	-54.5	-25.1	60.0	51.7	8.28	7.250		
2,000.0	2,000.0	1,998.8	1,998.8	4.4	4.4	-155.32	-54.5	-25.1	60.0	51.3	8.73	6.877		
2,100.0	2,100.0	2,098.8	2,098.8	4.6	4.6	-155.32	-54.5	-25.1	60.0	50.8	9.18	6.540		
2,200.0	2,200.0	2,198.8	2,198.8	4.8	4.8	-155.32	-54.5	-25.1	60.0	50.4	9.63	6.234		
2,300.0	2,300.0	2,298.8	2,298.8	5.0	5.0	-155.32	-54.5	-25.1	60.0	49.9	10.08	5.956		
2,400.0	2,400.0	2,398.8	2,398.8	5.3	5.3	-155.32	-54.5	-25.1	60.0	49.5	10.53	5.702		
2,500.0	2,500.0	2,498.8	2,498.8	5.5	5.5	-155.32	-54.5	-25.1	60.0	49.0	10.97	5.468		
2,600.0	2,600.0	2,598.8	2,598.8	5.7	5.7	-155.32	-54.5	-25.1	60.0	48.6	11.42	5.253		
2,700.0	2,700.0	2,698.8	2,698.8	5.9	5.9	-155.32	-54.5	-25.1	60.0	48.1	11.87	5.054		
2,800.0	2,800.0	2,798.8	2,798.8	6.2	6.2	-155.32	-54.5	-25.1	60.0	47.7	12.32	4.870		
2,900.0	2,900.0	2,898.8	2,898.8	6.4	6.4	-155.32	-54.5	-25.1	60.0	47.2	12.77	4.698		
3,000.0	3,000.0	2,998.8	2,998.8	6.6	6.6	-155.32	-54.5	-25.1	60.0	46.8	13.22	4.539		
3,100.0	3,100.0	3,098.8	3,098.8	6.8	6.8	-155.32	-54.5	-25.1	60.0	46.3	13.67	4.389		
3,200.0	3,200.0	3,198.8	3,198.8	7.1	7.1	-155.32	-54.5	-25.1	60.0	45.9	14.12	4.250		
3,300.0	3,300.0	3,298.8	3,298.8	7.3	7.3	-155.32	-54.5	-25.1	60.0	45.4	14.57	4.119		
3,400.0	3,400.0	3,398.8	3,398.8	7.5	7.5	-155.32	-54.5	-25.1	60.0	45.0	15.02	3.995 CC, ES		
3,500.0	3,500.0	3,496.9	3,496.9	7.7	7.7	79.90	-55.5	-26.4	61.2	45.7	15.42	3.967		
3,600.0	3,599.8	3,594.6	3,594.4	7.9	7.9	86.13	-58.6	-30.3	65.3	49.5	15.78	4.135		
3,700.0	3,699.5	3,691.4	3,690.9	8.1	8.1	94.68	-63.6	-36.8	73.6	57.4	16.15	4.557		
3,800.0	3,798.7	3,788.0	3,786.9	8.3	8.3	103.60	-70.4	-45.7	87.2	70.6	16.51	5.278		
3,895.1	3,892.7	3,880.8	3,878.9	8.5	8.4	111.36	-77.3	-54.6	103.4	86.5	16.86	6.129		
3,900.0	3,897.5	3,885.5	3,883.7	8.5	8.5	111.74	-77.6	-55.1	104.3	87.4	16.88	6.176		
4,000.0	3,996.0	3,982.8	3,980.2	8.7	8.7	118.41	-84.9	-64.5	123.7	106.5	17.26	7.167		
4,100.0	4,094.5	4,080.0	4,076.6	9.0	8.9	123.24	-92.1	-73.9	144.3	126.7	17.65	8.178		
4,200.0	4,193.0	4,177.2	4,173.1	9.2	9.1	126.85	-99.3	-83.3	165.7	147.7	18.05	9.180		
4,300.0	4,291.5	4,274.4	4,269.6	9.5	9.3	129.64	-106.6	-92.7	187.6	169.1	18.46	10.160		
4,400.0	4,390.0	4,371.6	4,366.1	9.8	9.5	131.85	-113.8	-102.1	209.8	190.9	18.89	11.108		
4,500.0	4,488.5	4,468.8	4,462.6	10.0	9.8	133.63	-121.0	-111.5	232.2	212.9	19.32	12.022		
4,600.0	4,587.0	4,566.1	4,559.1	10.3	10.0	135.10	-128.3	-120.9	254.9	235.1	19.76	12.899		
4,700.0	4,685.5	4,663.3	4,655.6	10.6	10.2	136.33	-135.5	-130.3	277.6	257.4	20.21	13.740		
4,800.0	4,784.1	4,760.5	4,752.1	10.9	10.5	137.37	-142.7	-139.7	300.5	279.8	20.66	14.544		
4,900.0	4,882.6	4,857.7	4,848.6	11.2	10.7	138.27	-150.0	-149.1	323.4	302.3	21.12	15.312		
5,000.0	4,981.1	4,954.9	4,945.1	11.5	11.0	139.05	-157.2	-158.5	346.4	324.8	21.59	16.047		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 4-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,079.6	5,052.2	5,041.6	11.9	11.3	139.73	-164.4	-167.9	369.5	347.4	22.06	16.748		
5,200.0	5,178.1	5,149.4	5,138.0	12.2	11.5	140.33	-171.6	-177.3	392.6	370.0	22.54	17.417		
5,300.0	5,276.6	5,246.6	5,234.5	12.5	11.8	140.86	-178.9	-186.7	415.7	392.7	23.02	18.057		
5,400.0	5,375.1	5,343.8	5,331.0	12.9	12.0	141.34	-186.1	-196.1	438.9	415.4	23.51	18.668		
5,500.0	5,473.6	5,441.0	5,427.5	13.2	12.3	141.77	-193.3	-205.5	462.1	438.1	24.00	19.252		
5,577.5	5,550.0	5,516.4	5,502.3	13.5	12.5	142.08	-198.9	-212.8	480.1	455.7	24.39	19.687		
5,600.0	5,572.2	5,538.3	5,524.0	13.5	12.6	151.30	-200.6	-214.9	485.3	460.8	24.49	19.813		
5,650.0	5,621.7	5,586.9	5,572.3	13.7	12.7	178.67	-204.2	-219.6	496.7	471.9	24.72	20.090		
5,700.0	5,671.2	5,637.4	5,622.5	13.8	12.9	-151.75	-206.5	-224.4	507.8	482.8	24.94	20.358		
5,750.0	5,720.6	5,688.5	5,673.4	13.9	13.0	-130.82	-205.2	-229.1	518.4	493.3	25.14	20.623		
5,800.0	5,769.5	5,740.1	5,724.5	14.0	13.1	-118.26	-200.2	-233.6	528.5	503.2	25.31	20.885		
5,850.0	5,817.8	5,792.1	5,775.6	14.1	13.2	-110.50	-191.4	-237.9	538.0	512.6	25.45	21.139		
5,900.0	5,865.1	5,844.6	5,826.4	14.2	13.3	-105.37	-178.9	-242.0	546.9	521.4	25.58	21.381		
5,950.0	5,911.3	5,897.6	5,876.6	14.2	13.3	-101.76	-162.5	-245.8	555.2	529.5	25.70	21.603		
6,000.0	5,956.1	5,950.9	5,925.8	14.3	13.4	-99.09	-142.2	-249.3	562.7	536.8	25.81	21.797		
6,050.0	5,999.4	6,004.8	5,973.8	14.3	13.5	-97.06	-118.1	-252.5	569.4	543.5	25.94	21.951		
6,100.0	6,040.8	6,059.0	6,020.2	14.3	13.6	-95.47	-90.3	-255.3	575.3	549.2	26.09	22.055		
6,150.0	6,080.3	6,113.5	6,064.7	14.4	13.6	-94.21	-58.8	-257.8	580.4	554.1	26.27	22.095		
6,200.0	6,117.5	6,168.4	6,106.9	14.4	13.7	-93.19	-23.8	-259.8	584.6	558.1	26.50	22.061		
6,250.0	6,152.4	6,223.5	6,146.5	14.4	13.8	-92.37	14.5	-261.5	588.0	561.2	26.80	21.939		
6,300.0	6,184.8	6,278.8	6,183.2	14.5	13.9	-91.71	55.9	-262.7	590.4	563.2	27.17	21.725		
6,350.0	6,214.4	6,334.3	6,216.7	14.6	14.1	-91.19	100.0	-263.4	591.8	564.2	27.64	21.413		
6,400.0	6,241.2	6,389.8	6,246.7	14.7	14.4	-90.79	146.7	-263.7	592.3	564.2	28.20	21.006		
6,405.7	6,244.1	6,396.2	6,249.9	14.7	14.4	-90.75	152.2	-263.7	592.3	564.1	28.27	20.956		
6,500.0	6,291.2	6,490.5	6,297.1	15.1	15.0	-90.75	233.9	-263.7	592.2	562.7	29.52	20.064		
6,555.7	6,319.1	6,546.2	6,324.9	15.5	15.5	-90.75	282.2	-263.7	592.2	561.8	30.37	19.499		
6,600.0	6,339.7	6,591.1	6,345.9	15.9	15.9	-90.76	321.9	-263.7	592.1	561.0	31.13	19.018		
6,650.0	6,359.3	6,641.9	6,365.7	16.3	16.4	-90.76	368.6	-263.7	592.1	560.0	32.08	18.456		
6,700.0	6,374.8	6,692.6	6,381.3	16.8	16.9	-90.75	416.8	-263.7	592.0	558.9	33.11	17.878		
6,750.0	6,386.1	6,743.3	6,392.6	17.3	17.5	-90.74	466.2	-263.7	591.9	557.7	34.23	17.293		
6,798.7	6,393.0	6,792.6	6,399.4	17.9	18.1	-90.73	515.1	-263.7	591.9	556.5	35.38	16.728		
6,800.0	6,393.1	6,793.9	6,399.5	17.9	18.1	-90.73	516.4	-263.7	591.8	556.4	35.41	16.713		
6,900.0	6,403.1	6,893.9	6,409.4	19.1	19.4	-90.73	615.9	-263.7	591.7	553.8	37.95	15.591		
7,000.0	6,413.0	6,993.9	6,419.4	20.5	20.8	-90.73	715.4	-263.7	591.6	550.9	40.69	14.537		
7,100.0	6,422.9	7,093.9	6,429.3	21.9	22.3	-90.73	814.9	-263.7	591.4	547.8	43.60	13.564		
7,200.0	6,432.9	7,193.9	6,439.2	23.4	23.8	-90.73	914.4	-263.7	591.3	544.7	46.65	12.676		
7,300.0	6,442.8	7,293.9	6,449.2	24.9	25.4	-90.73	1,013.9	-263.7	591.2	541.4	49.80	11.870		
7,400.0	6,452.7	7,393.9	6,459.1	26.5	27.0	-90.73	1,113.4	-263.7	591.0	538.0	53.05	11.141		
7,500.0	6,462.7	7,493.9	6,469.0	28.2	28.7	-90.73	1,212.9	-263.7	590.9	534.5	56.37	10.482		
7,600.0	6,472.6	7,593.9	6,479.0	29.8	30.4	-90.73	1,312.4	-263.7	590.8	531.0	59.75	9.886		
7,700.0	6,482.5	7,693.9	6,488.9	31.5	32.1	-90.73	1,411.9	-263.7	590.6	527.4	63.19	9.347		
7,800.0	6,492.5	7,793.9	6,498.8	33.3	33.8	-90.73	1,511.4	-263.7	590.5	523.8	66.67	8.857		
7,900.0	6,502.4	7,893.9	6,508.8	35.0	35.6	-90.73	1,610.9	-263.7	590.3	520.1	70.19	8.411		
8,000.0	6,512.3	7,993.9	6,518.7	36.8	37.4	-90.73	1,710.4	-263.7	590.2	516.5	73.74	8.004		
8,100.0	6,522.3	8,093.9	6,528.6	38.5	39.2	-90.73	1,809.9	-263.7	590.1	512.7	77.32	7.632		
8,200.0	6,532.2	8,193.9	6,538.6	40.3	41.0	-90.73	1,909.4	-263.6	589.9	509.0	80.92	7.290		
8,300.0	6,542.1	8,293.9	6,548.5	42.1	42.8	-90.73	2,008.9	-263.6	589.8	505.2	84.55	6.976		
8,400.0	6,552.1	8,393.9	6,558.4	43.9	44.6	-90.73	2,108.4	-263.6	589.7	501.5	88.19	6.686		
8,500.0	6,562.0	8,493.9	6,568.4	45.8	46.4	-90.73	2,208.0	-263.6	589.5	497.7	91.85	6.418		
8,600.0	6,571.9	8,593.9	6,578.3	47.6	48.3	-90.73	2,307.5	-263.6	589.4	493.9	95.52	6.170		
8,700.0	6,581.9	8,693.9	6,588.2	49.4	50.1	-90.73	2,407.0	-263.6	589.2	490.0	99.21	5.939		
8,800.0	6,591.8	8,793.9	6,598.1	51.3	51.9	-90.73	2,506.5	-263.6	589.1	486.2	102.91	5.725		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 4-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.0	6,601.7	8,893.9	6,608.1	53.1	53.8	-90.73	2,606.0	-263.6	589.0	482.3	106.62	5.524		
9,000.0	6,611.7	8,993.9	6,618.0	55.0	55.7	-90.73	2,705.5	-263.6	588.8	478.5	110.33	5.337		
9,100.0	6,621.6	9,093.9	6,627.9	56.8	57.5	-90.73	2,805.0	-263.6	588.7	474.6	114.06	5.161		
9,200.0	6,631.5	9,193.9	6,637.9	58.7	59.4	-90.73	2,904.5	-263.6	588.6	470.8	117.79	4.997		
9,300.0	6,641.4	9,293.9	6,647.8	60.5	61.3	-90.73	3,004.0	-263.6	588.4	466.9	121.53	4.842		
9,400.0	6,651.4	9,393.9	6,657.7	62.4	63.1	-90.73	3,103.5	-263.6	588.3	463.0	125.28	4.696		
9,500.0	6,661.3	9,493.9	6,667.7	64.3	65.0	-90.73	3,203.0	-263.6	588.1	459.1	129.03	4.558		
9,600.0	6,671.2	9,593.9	6,677.6	66.1	66.9	-90.73	3,302.5	-263.6	588.0	455.2	132.79	4.428		
9,700.0	6,681.2	9,693.9	6,687.5	68.0	68.8	-90.73	3,402.0	-263.6	587.9	451.3	136.55	4.305		
9,800.0	6,691.1	9,793.9	6,697.5	69.9	70.6	-90.73	3,501.5	-263.6	587.7	447.4	140.32	4.189		
9,900.0	6,701.0	9,893.9	6,707.4	71.8	72.5	-90.73	3,601.0	-263.6	587.6	443.5	144.09	4.078		
10,000.0	6,711.0	9,993.9	6,717.3	73.7	74.4	-90.73	3,700.5	-263.6	587.5	439.6	147.86	3.973		
10,100.0	6,720.9	10,093.9	6,727.3	75.6	76.3	-90.73	3,800.0	-263.6	587.3	435.7	151.64	3.873		
10,200.0	6,730.8	10,193.9	6,737.2	77.4	78.2	-90.73	3,899.5	-263.6	587.2	431.8	155.42	3.778		
10,300.0	6,740.8	10,293.9	6,747.1	79.3	80.1	-90.73	3,999.1	-263.6	587.0	427.8	159.20	3.687		
10,400.0	6,750.7	10,393.9	6,757.1	81.2	82.0	-90.73	4,098.6	-263.6	586.9	423.9	162.99	3.601		
10,500.0	6,760.6	10,493.9	6,767.0	83.1	83.9	-90.73	4,198.1	-263.6	586.8	420.0	166.78	3.518		
10,600.0	6,770.6	10,593.9	6,776.9	85.0	85.8	-90.73	4,297.6	-263.6	586.6	416.1	170.57	3.439		
10,700.0	6,780.5	10,693.9	6,786.9	86.9	87.7	-90.73	4,397.1	-263.6	586.5	412.1	174.36	3.364		
10,800.0	6,790.4	10,793.9	6,796.8	88.8	89.6	-90.73	4,496.6	-263.6	586.4	408.2	178.16	3.291		
10,900.0	6,800.4	10,893.9	6,806.7	90.7	91.5	-90.73	4,596.1	-263.6	586.2	404.3	181.96	3.222		
11,000.0	6,810.3	10,993.9	6,816.6	92.6	93.4	-90.73	4,695.6	-263.6	586.1	400.3	185.76	3.155		
11,100.0	6,820.2	11,093.9	6,826.6	94.5	95.3	-90.73	4,795.1	-263.6	585.9	396.4	189.56	3.091		
11,200.0	6,830.2	11,193.9	6,836.5	96.4	97.2	-90.74	4,894.6	-263.6	585.8	392.4	193.36	3.030		
11,300.0	6,840.1	11,293.9	6,846.4	98.3	99.1	-90.74	4,994.1	-263.6	585.7	388.5	197.17	2.970		
11,400.0	6,850.0	11,393.9	6,856.4	100.2	101.0	-90.74	5,093.6	-263.6	585.5	384.6	200.97	2.913		
11,500.0	6,860.0	11,493.9	6,866.3	102.1	102.9	-90.74	5,193.1	-263.6	585.4	380.6	204.78	2.859		
11,600.0	6,869.9	11,593.9	6,876.2	104.0	104.8	-90.74	5,292.6	-263.6	585.3	376.7	208.59	2.806		
11,700.0	6,879.8	11,693.9	6,886.2	105.9	106.7	-90.74	5,392.1	-263.6	585.1	372.7	212.40	2.755		
11,800.0	6,889.7	11,793.9	6,896.1	107.8	108.6	-90.74	5,491.6	-263.6	585.0	368.8	216.21	2.706		
11,900.0	6,899.7	11,893.9	6,906.0	109.7	110.5	-90.74	5,591.1	-263.5	584.8	364.8	220.02	2.658		
12,000.0	6,909.6	11,993.9	6,916.0	111.6	112.4	-90.74	5,690.6	-263.5	584.7	360.9	223.84	2.612		
12,100.0	6,919.5	12,093.9	6,925.9	113.5	114.3	-90.74	5,790.1	-263.5	584.6	356.9	227.65	2.568		
12,200.0	6,929.5	12,193.9	6,935.8	115.4	116.2	-90.74	5,889.7	-263.5	584.4	353.0	231.47	2.525		
12,251.7	6,934.6	12,245.6	6,941.0	116.4	117.0	-90.74	5,941.1	-263.5	584.4	351.1	233.27	2.505 SF		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 6-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.52	-13.7	-6.2	15.0					
100.0	100.0	99.9	99.9	0.1	0.1	-155.52	-13.7	-6.2	15.0	14.8	0.19	79.537		
200.0	200.0	199.9	199.9	0.3	0.3	-155.52	-13.7	-6.2	15.0	14.4	0.64	23.522		
300.0	300.0	299.9	299.9	0.5	0.5	-155.52	-13.7	-6.2	15.0	13.9	1.09	13.800		
400.0	400.0	399.9	399.9	0.8	0.8	-155.52	-13.7	-6.2	15.0	13.5	1.54	9.764		
500.0	500.0	499.9	499.9	1.0	1.0	-155.52	-13.7	-6.2	15.0	13.0	1.99	7.555		
600.0	600.0	599.9	599.9	1.2	1.2	-155.52	-13.7	-6.2	15.0	12.6	2.44	6.161		
700.0	700.0	699.9	699.9	1.4	1.4	-155.52	-13.7	-6.2	15.0	12.1	2.89	5.201		
800.0	800.0	799.9	799.9	1.7	1.7	-155.52	-13.7	-6.2	15.0	11.7	3.34	4.500		
900.0	900.0	899.9	899.9	1.9	1.9	-155.52	-13.7	-6.2	15.0	11.2	3.78	3.966		
1,000.0	1,000.0	999.9	999.9	2.1	2.1	-155.52	-13.7	-6.2	15.0	10.8	4.23	3.545		
1,100.0	1,100.0	1,099.9	1,099.9	2.3	2.3	-155.52	-13.7	-6.2	15.0	10.3	4.68	3.204		
1,200.0	1,200.0	1,199.9	1,199.9	2.6	2.6	-155.52	-13.7	-6.2	15.0	9.9	5.13	2.924		
1,300.0	1,300.0	1,299.9	1,299.9	2.8	2.8	-155.52	-13.7	-6.2	15.0	9.4	5.58	2.688		
1,400.0	1,400.0	1,399.9	1,399.9	3.0	3.0	-155.52	-13.7	-6.2	15.0	9.0	6.03	2.488		
1,500.0	1,500.0	1,499.9	1,499.9	3.2	3.2	-155.52	-13.7	-6.2	15.0	8.5	6.48	2.316		
1,600.0	1,600.0	1,599.9	1,599.9	3.5	3.5	-155.52	-13.7	-6.2	15.0	8.1	6.93	2.165		
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-155.52	-13.7	-6.2	15.0	7.6	7.38	2.034		
1,800.0	1,800.0	1,799.9	1,799.9	3.9	3.9	-155.52	-13.7	-6.2	15.0	7.2	7.83	1.917	Level 4	
1,900.0	1,900.0	1,899.9	1,899.9	4.1	4.1	-155.52	-13.7	-6.2	15.0	6.7	8.28	1.813	Level 4	
2,000.0	2,000.0	1,999.9	1,999.9	4.4	4.4	-155.52	-13.7	-6.2	15.0	6.3	8.73	1.719	Level 4	
2,100.0	2,100.0	2,099.9	2,099.9	4.6	4.6	-155.52	-13.7	-6.2	15.0	5.8	9.18	1.635	Level 4	
2,200.0	2,200.0	2,199.9	2,199.9	4.8	4.8	-155.52	-13.7	-6.2	15.0	5.4	9.63	1.559	Level 4	
2,300.0	2,300.0	2,299.9	2,299.9	5.0	5.0	-155.52	-13.7	-6.2	15.0	4.9	10.08	1.489	Level 3	
2,400.0	2,400.0	2,399.9	2,399.9	5.3	5.3	-155.52	-13.7	-6.2	15.0	4.5	10.53	1.426	Level 3	
2,500.0	2,500.0	2,499.9	2,499.9	5.5	5.5	-155.52	-13.7	-6.2	15.0	4.0	10.98	1.367	Level 3	
2,600.0	2,600.0	2,599.9	2,599.9	5.7	5.7	-155.52	-13.7	-6.2	15.0	3.6	11.43	1.314	Level 3	
2,700.0	2,700.0	2,699.9	2,699.9	5.9	5.9	-155.52	-13.7	-6.2	15.0	3.1	11.88	1.264	Level 3	
2,800.0	2,800.0	2,799.9	2,799.9	6.2	6.2	-155.52	-13.7	-6.2	15.0	2.7	12.33	1.218	Level 2	
2,900.0	2,900.0	2,899.9	2,899.9	6.4	6.4	-155.52	-13.7	-6.2	15.0	2.2	12.78	1.175	Level 2	
3,000.0	3,000.0	2,999.9	2,999.9	6.6	6.6	-155.52	-13.7	-6.2	15.0	1.8	13.23	1.135	Level 2	
3,100.0	3,100.0	3,099.9	3,099.9	6.8	6.8	-155.52	-13.7	-6.2	15.0	1.3	13.67	1.098	Level 2	
3,200.0	3,200.0	3,199.9	3,199.9	7.1	7.1	-157.15	-13.8	-5.8	14.9	0.8	14.12	1.057	Level 2	
3,283.5	3,283.5	3,283.5	3,283.4	7.2	7.2	-167.47	-14.3	-3.2	14.7	0.2	14.46	1.015	Level 2, CC	
3,300.0	3,300.0	3,299.9	3,299.9	7.3	7.2	-170.64	-14.5	-2.4	14.7	0.2	14.53	1.012	Level 2, ES, SF	
3,400.0	3,400.0	3,399.5	3,399.2	7.5	7.4	164.70	-16.0	4.4	16.6	1.7	14.95	1.111	Level 2	
3,500.0	3,500.0	3,498.7	3,497.9	7.7	7.6	15.68	-18.3	14.5	21.7	6.4	15.35	1.415	Level 3	
3,600.0	3,599.8	3,597.6	3,595.7	7.9	7.9	0.35	-21.2	27.8	28.3	12.6	15.70	1.804	Level 4	
3,700.0	3,699.5	3,696.0	3,692.7	8.1	8.1	-11.03	-24.9	44.4	36.1	20.0	16.04	2.248		
3,800.0	3,798.7	3,794.0	3,788.6	8.3	8.4	-19.98	-29.3	64.2	44.8	28.5	16.39	2.737		
3,895.1	3,892.7	3,886.9	3,878.8	8.5	8.6	-26.99	-34.1	85.8	54.2	37.4	16.73	3.239		
3,900.0	3,897.5	3,891.7	3,883.4	8.5	8.6	-27.32	-34.4	87.0	54.7	37.9	16.75	3.265		
4,000.0	3,996.0	3,988.7	3,976.7	8.7	9.0	-32.70	-40.1	112.8	67.2	50.0	17.17	3.912		
4,100.0	4,094.5	4,084.8	4,068.3	9.0	9.3	-35.88	-46.5	141.3	83.3	65.7	17.61	4.732		
4,200.0	4,193.0	4,182.7	4,160.9	9.2	9.7	-37.80	-53.3	172.3	101.6	83.6	18.07	5.623		
4,300.0	4,291.5	4,281.0	4,253.9	9.5	10.2	-39.13	-60.2	203.4	120.0	101.5	18.55	6.470		
4,400.0	4,390.0	4,379.2	4,346.9	9.8	10.6	-40.11	-67.2	234.5	138.5	119.4	19.04	7.271		
4,500.0	4,488.5	4,477.5	4,439.8	10.0	11.1	-40.86	-74.1	265.6	156.9	137.4	19.55	8.027		
4,600.0	4,587.0	4,575.8	4,532.8	10.3	11.6	-41.45	-81.0	296.7	175.4	155.3	20.07	8.740		
4,700.0	4,685.5	4,674.0	4,625.7	10.6	12.2	-41.92	-87.9	327.8	193.9	173.3	20.60	9.411		
4,800.0	4,784.1	4,772.3	4,718.7	10.9	12.7	-42.32	-94.8	358.9	212.4	191.3	21.15	10.043		
4,900.0	4,882.6	4,870.6	4,811.6	11.2	13.3	-42.65	-101.7	390.0	230.9	209.2	21.71	10.638		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 6-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,981.1	4,968.8	4,904.6	11.5	13.8	-42.93	-108.6	421.1	249.5	227.2	22.28	11.198		
5,100.0	5,079.6	5,067.1	4,997.5	11.9	14.4	-43.18	-115.5	452.2	268.0	245.1	22.86	11.725		
5,200.0	5,178.1	5,165.3	5,090.5	12.2	15.0	-43.39	-122.4	483.3	286.5	263.1	23.44	12.222		
5,300.0	5,276.6	5,263.6	5,183.5	12.5	15.6	-43.57	-129.3	514.4	305.1	281.0	24.04	12.691		
5,400.0	5,375.1	5,361.9	5,276.4	12.9	16.2	-43.74	-136.3	545.5	323.6	298.9	24.64	13.132		
5,500.0	5,473.6	5,460.1	5,369.4	13.2	16.8	-43.88	-143.2	576.6	342.1	316.9	25.25	13.549		
5,577.5	5,550.0	5,536.3	5,441.4	13.5	17.3	-43.99	-148.5	600.7	356.5	330.8	25.73	13.856		
5,600.0	5,572.2	5,558.4	5,462.3	13.5	17.4	-35.54	-150.1	607.7	360.7	334.8	25.89	13.930		
5,650.0	5,621.7	5,607.5	5,508.7	13.7	17.7	-9.18	-153.5	623.2	369.7	343.6	26.20	14.115		
5,700.0	5,671.2	5,656.3	5,554.9	13.8	18.0	20.18	-157.0	638.6	378.7	352.3	26.43	14.327		
5,750.0	5,720.6	5,704.5	5,600.6	13.9	18.3	41.38	-160.4	653.9	387.6	361.0	26.60	14.570		
5,800.0	5,769.5	5,751.5	5,645.0	14.0	18.6	54.61	-163.7	668.8	396.7	370.0	26.72	14.845		
5,850.0	5,817.8	5,795.5	5,686.6	14.1	18.9	63.07	-165.4	682.8	406.4	379.6	26.81	15.158		
5,900.0	5,865.1	5,839.5	5,728.2	14.2	19.1	68.85	-164.5	697.2	416.9	390.0	26.89	15.505		
5,950.0	5,911.3	5,884.1	5,770.2	14.2	19.4	73.07	-160.8	711.9	428.2	401.2	26.96	15.881		
6,000.0	5,956.1	5,929.4	5,812.4	14.3	19.6	76.31	-154.2	727.0	440.2	413.2	27.04	16.281		
6,050.0	5,999.4	5,975.4	5,854.6	14.3	19.8	78.88	-144.7	742.4	452.9	425.8	27.12	16.698		
6,100.0	6,040.8	6,022.2	5,896.9	14.3	20.1	80.96	-132.0	758.2	466.2	439.0	27.22	17.124		
6,150.0	6,080.3	6,069.9	5,938.9	14.4	20.3	82.68	-116.2	774.2	480.0	452.7	27.35	17.552		
6,200.0	6,117.5	6,118.6	5,980.6	14.4	20.6	84.12	-97.0	790.4	494.3	466.8	27.50	17.971		
6,250.0	6,152.4	6,168.4	6,021.7	14.4	20.8	85.33	-74.2	806.8	508.9	481.2	27.70	18.374		
6,300.0	6,184.8	6,219.4	6,062.1	14.5	21.0	86.34	-47.9	823.3	523.8	495.9	27.94	18.750		
6,350.0	6,214.4	6,271.6	6,101.4	14.6	21.3	87.19	-17.7	839.8	538.9	510.7	28.23	19.088		
6,400.0	6,241.2	6,325.3	6,139.4	14.7	21.5	87.91	16.5	856.3	554.1	525.5	28.59	19.382		
6,405.7	6,244.1	6,331.6	6,143.7	14.7	21.6	87.98	20.6	858.2	555.8	527.2	28.63	19.411		
6,500.0	6,291.2	6,439.0	6,210.9	15.1	22.1	90.08	98.3	889.1	583.3	553.8	29.52	19.759		
6,555.7	6,319.1	6,505.5	6,246.6	15.5	22.4	90.50	151.5	906.7	598.1	567.9	30.22	19.794		
6,600.0	6,339.7	6,548.2	6,267.9	15.9	22.7	89.56	186.9	917.6	609.5	578.7	30.83	19.772		
6,650.0	6,359.3	6,596.0	6,291.9	16.3	22.9	88.87	226.5	929.8	622.4	590.8	31.55	19.725		
6,700.0	6,374.8	6,643.1	6,315.4	16.8	23.2	88.53	265.4	941.8	635.3	602.9	32.36	19.634		
6,750.0	6,386.1	6,739.7	6,359.2	17.3	23.9	89.61	348.6	963.6	647.0	613.4	33.60	19.254		
6,798.7	6,393.0	6,860.9	6,396.8	17.9	24.6	90.82	462.5	979.6	653.7	618.4	35.26	18.541		
6,800.0	6,393.1	6,864.2	6,397.6	17.9	24.7	90.85	465.7	979.9	653.8	618.5	35.30	18.518		
6,900.0	6,403.1	7,015.4	6,417.6	19.1	25.7	91.29	615.4	982.9	655.1	616.9	38.22	17.142		
7,000.0	6,413.0	7,115.4	6,427.5	20.5	26.5	91.29	714.9	982.9	655.2	614.5	40.77	16.072		
7,100.0	6,422.9	7,215.4	6,437.5	21.9	27.4	91.29	814.4	982.9	655.3	611.8	43.51	15.062		
7,200.0	6,432.9	7,315.4	6,447.4	23.4	28.4	91.29	913.9	982.8	655.4	609.0	46.40	14.124		
7,300.0	6,442.8	7,415.4	6,457.3	24.9	29.5	91.29	1,013.4	982.8	655.5	606.1	49.43	13.262		
7,400.0	6,452.7	7,515.4	6,467.3	26.5	30.8	91.29	1,112.9	982.8	655.6	603.1	52.56	12.473		
7,500.0	6,462.7	7,615.4	6,477.2	28.2	32.1	91.29	1,212.4	982.7	655.7	599.9	55.78	11.755		
7,600.0	6,472.6	7,715.4	6,487.1	29.8	33.4	91.29	1,311.9	982.7	655.8	596.8	59.08	11.101		
7,700.0	6,482.5	7,815.4	6,497.1	31.5	34.8	91.29	1,411.4	982.7	655.9	593.5	62.44	10.506		
7,800.0	6,492.5	7,915.4	6,507.0	33.3	36.3	91.29	1,510.9	982.6	656.0	590.2	65.85	9.963		
7,900.0	6,502.4	8,015.4	6,516.9	35.0	37.8	91.29	1,610.4	982.6	656.1	586.8	69.30	9.468		
8,000.0	6,512.3	8,115.4	6,526.9	36.8	39.4	91.29	1,709.9	982.6	656.2	583.4	72.80	9.014		
8,100.0	6,522.3	8,215.4	6,536.8	38.5	41.0	91.29	1,809.4	982.5	656.3	580.0	76.33	8.599		
8,200.0	6,532.2	8,315.4	6,546.7	40.3	42.6	91.29	1,908.9	982.5	656.4	576.6	79.88	8.217		
8,300.0	6,542.1	8,415.4	6,556.7	42.1	44.3	91.29	2,008.4	982.5	656.5	573.1	83.47	7.866		
8,400.0	6,552.1	8,515.4	6,566.6	43.9	46.0	91.29	2,107.9	982.4	656.6	569.6	87.07	7.541		
8,500.0	6,562.0	8,615.4	6,576.5	45.8	47.6	91.29	2,207.5	982.4	656.7	566.0	90.70	7.241		
8,600.0	6,571.9	8,715.4	6,586.5	47.6	49.4	91.29	2,307.0	982.4	656.8	562.5	94.34	6.963		
8,700.0	6,581.9	8,815.4	6,596.4	49.4	51.1	91.29	2,406.5	982.3	656.9	558.9	97.99	6.704		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 6-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.0	6,591.8	8,915.4	6,606.3	51.3	52.8	91.29	2,506.0	982.3	657.0	555.4	101.66	6.463		
8,900.0	6,601.7	9,015.4	6,616.3	53.1	54.6	91.29	2,605.5	982.3	657.1	551.8	105.35	6.238		
9,000.0	6,611.7	9,115.4	6,626.2	55.0	56.3	91.29	2,705.0	982.2	657.2	548.2	109.04	6.027		
9,100.0	6,621.6	9,215.4	6,636.1	56.8	58.1	91.29	2,804.5	982.2	657.3	544.6	112.75	5.830		
9,200.0	6,631.5	9,315.4	6,646.1	58.7	59.9	91.29	2,904.0	982.2	657.4	541.0	116.46	5.645		
9,300.0	6,641.4	9,415.4	6,656.0	60.5	61.7	91.29	3,003.5	982.1	657.5	537.4	120.18	5.471		
9,400.0	6,651.4	9,515.4	6,665.9	62.4	63.5	91.29	3,103.0	982.1	657.6	533.7	123.91	5.308		
9,500.0	6,661.3	9,615.4	6,675.8	64.3	65.3	91.29	3,202.5	982.1	657.7	530.1	127.64	5.153		
9,600.0	6,671.2	9,715.4	6,685.8	66.1	67.1	91.29	3,302.0	982.0	657.8	526.5	131.38	5.007		
9,700.0	6,681.2	9,815.4	6,695.7	68.0	68.9	91.29	3,401.5	982.0	657.9	522.8	135.13	4.869		
9,800.0	6,691.1	9,915.4	6,705.6	69.9	70.8	91.29	3,501.0	982.0	658.0	519.2	138.88	4.738		
9,900.0	6,701.0	10,015.4	6,715.6	71.8	72.6	91.29	3,600.5	981.9	658.1	515.5	142.64	4.614		
10,000.0	6,711.0	10,115.4	6,725.5	73.7	74.4	91.29	3,700.0	981.9	658.2	511.8	146.40	4.496		
10,100.0	6,720.9	10,215.4	6,735.4	75.6	76.3	91.29	3,799.5	981.9	658.3	508.2	150.17	4.384		
10,200.0	6,730.8	10,315.4	6,745.4	77.4	78.1	91.29	3,899.0	981.8	658.4	504.5	153.94	4.277		
10,300.0	6,740.8	10,415.4	6,755.3	79.3	80.0	91.29	3,998.6	981.8	658.5	500.8	157.71	4.176		
10,400.0	6,750.7	10,515.4	6,765.2	81.2	81.8	91.29	4,098.1	981.8	658.6	497.2	161.49	4.079		
10,500.0	6,760.6	10,615.4	6,775.2	83.1	83.7	91.29	4,197.6	981.7	658.8	493.5	165.27	3.986		
10,600.0	6,770.6	10,715.4	6,785.1	85.0	85.5	91.29	4,297.1	981.7	658.9	489.8	169.05	3.897		
10,700.0	6,780.5	10,815.4	6,795.0	86.9	87.4	91.28	4,396.6	981.6	659.0	486.1	172.83	3.813		
10,800.0	6,790.4	10,915.4	6,805.0	88.8	89.3	91.28	4,496.1	981.6	659.1	482.4	176.62	3.731		
10,900.0	6,800.4	11,015.4	6,814.9	90.7	91.1	91.28	4,595.6	981.6	659.2	478.7	180.41	3.654		
11,000.0	6,810.3	11,115.4	6,824.8	92.6	93.0	91.28	4,695.1	981.5	659.3	475.1	184.20	3.579		
11,100.0	6,820.2	11,215.4	6,834.8	94.5	94.9	91.28	4,794.6	981.5	659.4	471.4	188.00	3.507		
11,200.0	6,830.2	11,315.4	6,844.7	96.4	96.7	91.28	4,894.1	981.5	659.5	467.7	191.79	3.438		
11,300.0	6,840.1	11,415.4	6,854.6	98.3	98.6	91.28	4,993.6	981.4	659.6	464.0	195.59	3.372		
11,400.0	6,850.0	11,515.4	6,864.6	100.2	100.5	91.28	5,093.1	981.4	659.7	460.3	199.39	3.308		
11,500.0	6,860.0	11,615.4	6,874.5	102.1	102.4	91.28	5,192.6	981.4	659.8	456.6	203.19	3.247		
11,600.0	6,869.9	11,715.4	6,884.4	104.0	104.2	91.28	5,292.1	981.3	659.9	452.9	206.99	3.188		
11,700.0	6,879.8	11,815.4	6,894.4	105.9	106.1	91.28	5,391.6	981.3	660.0	449.2	210.80	3.131		
11,800.0	6,889.7	11,915.4	6,904.3	107.8	108.0	91.28	5,491.1	981.3	660.1	445.5	214.60	3.076		
11,900.0	6,899.7	12,015.4	6,914.2	109.7	109.9	91.28	5,590.6	981.2	660.2	441.8	218.41	3.023		
12,000.0	6,909.6	12,115.4	6,924.1	111.6	111.8	91.28	5,690.1	981.2	660.3	438.0	222.22	2.971		
12,100.0	6,919.5	12,215.4	6,934.1	113.5	113.7	91.28	5,789.7	981.2	660.4	434.3	226.03	2.922		
12,200.0	6,929.5	12,315.4	6,944.0	115.4	115.5	91.28	5,889.2	981.1	660.5	430.6	229.84	2.874		
12,251.7	6,934.6	12,367.1	6,949.1	116.4	116.5	91.28	5,940.6	981.1	660.5	428.7	231.81	2.849		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 7-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.41	-27.3	-12.5	30.0					
100.0	100.0	99.8	99.8	0.1	0.1	-155.41	-27.3	-12.5	30.0	29.8	0.19	159.002		
200.0	200.0	199.8	199.8	0.3	0.3	-155.41	-27.3	-12.5	30.0	29.4	0.64	47.015		
300.0	300.0	299.8	299.8	0.5	0.5	-155.41	-27.3	-12.5	30.0	28.9	1.09	27.579		
400.0	400.0	399.8	399.8	0.8	0.8	-155.41	-27.3	-12.5	30.0	28.5	1.54	19.513		
500.0	500.0	499.8	499.8	1.0	1.0	-155.41	-27.3	-12.5	30.0	28.0	1.99	15.097		
600.0	600.0	599.8	599.8	1.2	1.2	-155.41	-27.3	-12.5	30.0	27.6	2.44	12.311		
700.0	700.0	699.8	699.8	1.4	1.4	-155.41	-27.3	-12.5	30.0	27.1	2.89	10.393		
800.0	800.0	799.8	799.8	1.7	1.7	-155.41	-27.3	-12.5	30.0	26.7	3.34	8.992		
900.0	900.0	899.8	899.8	1.9	1.9	-155.41	-27.3	-12.5	30.0	26.2	3.78	7.924		
1,000.0	1,000.0	999.8	999.8	2.1	2.1	-155.41	-27.3	-12.5	30.0	25.8	4.23	7.083		
1,100.0	1,100.0	1,099.8	1,099.8	2.3	2.3	-155.41	-27.3	-12.5	30.0	25.3	4.68	6.403		
1,200.0	1,200.0	1,199.8	1,199.8	2.6	2.6	-155.41	-27.3	-12.5	30.0	24.9	5.13	5.842		
1,300.0	1,300.0	1,299.8	1,299.8	2.8	2.8	-155.41	-27.3	-12.5	30.0	24.4	5.58	5.372		
1,400.0	1,400.0	1,399.8	1,399.8	3.0	3.0	-155.41	-27.3	-12.5	30.0	24.0	6.03	4.972		
1,500.0	1,500.0	1,499.8	1,499.8	3.2	3.2	-155.41	-27.3	-12.5	30.0	23.5	6.48	4.627		
1,600.0	1,600.0	1,599.8	1,599.8	3.5	3.5	-155.41	-27.3	-12.5	30.0	23.1	6.93	4.327		
1,700.0	1,700.0	1,699.8	1,699.8	3.7	3.7	-155.41	-27.3	-12.5	30.0	22.6	7.38	4.063		
1,800.0	1,800.0	1,799.8	1,799.8	3.9	3.9	-155.41	-27.3	-12.5	30.0	22.2	7.83	3.830		
1,900.0	1,900.0	1,899.8	1,899.8	4.1	4.1	-155.41	-27.3	-12.5	30.0	21.7	8.28	3.622		
2,000.0	2,000.0	1,999.8	1,999.8	4.4	4.4	-155.41	-27.3	-12.5	30.0	21.3	8.73	3.435		
2,100.0	2,100.0	2,099.8	2,099.8	4.6	4.6	-155.41	-27.3	-12.5	30.0	20.8	9.18	3.267		
2,200.0	2,200.0	2,199.8	2,199.8	4.8	4.8	-155.41	-27.3	-12.5	30.0	20.4	9.63	3.115		
2,300.0	2,300.0	2,299.8	2,299.8	5.0	5.0	-155.41	-27.3	-12.5	30.0	19.9	10.08	2.976		
2,400.0	2,400.0	2,399.8	2,399.8	5.3	5.3	-155.41	-27.3	-12.5	30.0	19.5	10.53	2.849		
2,500.0	2,500.0	2,499.8	2,499.8	5.5	5.5	-155.41	-27.3	-12.5	30.0	19.0	10.98	2.732		
2,600.0	2,600.0	2,599.8	2,599.8	5.7	5.7	-155.41	-27.3	-12.5	30.0	18.6	11.43	2.625		
2,700.0	2,700.0	2,699.8	2,699.8	5.9	5.9	-155.41	-27.3	-12.5	30.0	18.1	11.88	2.525		
2,800.0	2,800.0	2,799.8	2,799.8	6.2	6.2	-155.41	-27.3	-12.5	30.0	17.7	12.33	2.433		
2,900.0	2,900.0	2,899.8	2,899.8	6.4	6.4	-155.41	-27.3	-12.5	30.0	17.2	12.78	2.348		
3,000.0	3,000.0	3,000.1	3,000.1	6.6	6.6	-158.62	-27.4	-10.7	29.4	16.2	13.21	2.229		
3,100.0	3,100.0	3,100.2	3,100.0	6.8	6.8	-168.81	-27.9	-5.5	28.4	14.8	13.63	2.084		
3,140.4	3,140.4	3,140.5	3,140.2	6.9	6.9	-175.07	-28.1	-2.4	28.2	14.4	13.80	2.046	CC, ES, SF	
3,200.0	3,200.0	3,199.8	3,199.2	7.1	7.0	173.76	-28.6	3.1	28.8	14.7	14.06	2.048		
3,300.0	3,300.0	3,298.6	3,297.3	7.3	7.2	153.00	-29.7	15.1	33.4	18.9	14.50	2.301		
3,400.0	3,400.0	3,396.5	3,394.1	7.5	7.4	135.63	-31.0	30.3	43.7	28.7	14.96	2.921		
3,500.0	3,500.0	3,493.6	3,489.3	7.7	7.7	-3.30	-32.5	48.6	57.7	42.4	15.31	3.766		
3,600.0	3,599.8	3,589.9	3,583.3	7.9	8.0	-11.75	-34.4	69.9	72.9	57.2	15.67	4.653		
3,700.0	3,699.5	3,685.5	3,675.7	8.1	8.3	-18.30	-36.5	94.1	89.1	73.1	16.02	5.564		
3,800.0	3,798.7	3,781.0	3,767.2	8.3	8.6	-23.73	-38.8	121.4	106.3	89.9	16.37	6.489		
3,895.1	3,892.7	3,874.4	3,856.4	8.5	9.0	-28.26	-41.2	149.0	121.5	104.8	16.72	7.265		
3,900.0	3,897.5	3,879.2	3,861.0	8.5	9.0	-28.49	-41.3	150.5	122.2	105.5	16.74	7.300		
4,000.0	3,996.0	3,977.6	3,954.9	8.7	9.4	-32.60	-43.9	179.6	137.5	120.4	17.17	8.008		
4,100.0	4,094.5	4,076.0	4,048.9	9.0	9.8	-35.87	-46.4	208.7	153.4	135.8	17.63	8.702		
4,200.0	4,193.0	4,174.4	4,142.8	9.2	10.3	-38.53	-48.9	237.8	169.7	151.6	18.10	9.373		
4,300.0	4,291.5	4,272.8	4,236.8	9.5	10.8	-40.72	-51.4	267.0	186.2	167.6	18.60	10.015		
4,400.0	4,390.0	4,371.2	4,330.7	9.8	11.3	-42.56	-53.9	296.1	203.0	183.9	19.11	10.624		
4,500.0	4,488.5	4,469.6	4,424.6	10.0	11.8	-44.11	-56.4	325.2	220.0	200.3	19.64	11.200		
4,600.0	4,587.0	4,567.9	4,518.6	10.3	12.3	-45.44	-58.9	354.4	237.1	216.9	20.19	11.742		
4,700.0	4,685.5	4,666.3	4,612.5	10.6	12.8	-46.59	-61.5	383.5	254.3	233.5	20.76	12.251		
4,800.0	4,784.1	4,764.7	4,706.5	10.9	13.3	-47.60	-64.0	412.6	271.6	250.2	21.33	12.729		
4,900.0	4,882.6	4,863.1	4,800.4	11.2	13.9	-48.48	-66.5	441.7	288.9	267.0	21.93	13.177		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 7-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,981.1	4,961.5	4,894.4	11.5	14.4	-49.27	-69.0	470.9	306.4	283.8	22.53	13.596		
5,100.0	5,079.6	5,059.9	4,988.3	11.9	15.0	-49.97	-71.5	500.0	323.8	300.7	23.15	13.989		
5,200.0	5,178.1	5,158.3	5,082.3	12.2	15.5	-50.59	-74.0	529.1	341.3	317.6	23.77	14.357		
5,300.0	5,276.6	5,256.7	5,176.2	12.5	16.1	-51.16	-76.5	558.3	358.9	334.5	24.41	14.702		
5,400.0	5,375.1	5,355.1	5,270.2	12.9	16.6	-51.68	-79.1	587.4	376.5	351.4	25.06	15.025		
5,500.0	5,473.6	5,453.4	5,364.1	13.2	17.2	-52.15	-81.6	616.5	394.1	368.4	25.71	15.328		
5,577.5	5,550.0	5,529.7	5,436.9	13.5	17.7	-52.48	-83.5	639.1	407.7	381.5	26.22	15.550		
5,600.0	5,572.2	5,551.9	5,458.1	13.5	17.8	-44.08	-84.1	645.6	411.6	385.2	26.39	15.596		
5,650.0	5,621.7	5,601.1	5,505.1	13.7	18.1	-17.84	-85.3	660.2	419.8	393.1	26.71	15.714		
5,700.0	5,671.2	5,650.3	5,552.1	13.8	18.4	11.40	-86.6	674.8	427.2	400.3	26.96	15.850		
5,750.0	5,720.6	5,690.9	5,590.7	13.9	18.6	32.26	-87.7	686.9	434.3	407.2	27.12	16.016		
5,800.0	5,769.5	5,721.1	5,619.2	14.0	18.8	44.76	-88.5	697.1	442.6	415.4	27.23	16.256		
5,850.0	5,817.8	5,750.0	5,646.0	14.1	19.0	52.58	-89.5	707.9	452.5	425.2	27.30	16.574		
5,900.0	5,865.1	5,777.7	5,671.2	14.2	19.2	57.84	-90.4	719.2	464.2	436.8	27.36	16.964		
5,950.0	5,911.3	5,800.0	5,691.3	14.2	19.4	61.32	-91.3	729.0	477.8	450.4	27.41	17.428		
6,000.0	5,956.1	5,827.9	5,715.8	14.3	19.7	64.21	-92.4	742.2	493.3	465.9	27.46	17.964		
6,050.0	5,999.4	5,850.0	5,734.9	14.3	19.9	66.07	-93.4	753.3	511.0	483.5	27.52	18.569		
6,100.0	6,040.8	5,871.0	5,752.7	14.3	20.1	67.34	-94.3	764.4	530.7	503.2	27.59	19.236		
6,150.0	6,080.3	5,900.0	5,776.7	14.4	20.4	68.85	-95.7	780.6	552.7	525.1	27.68	19.972		
6,200.0	6,117.5	5,900.0	5,776.7	14.4	20.4	67.60	-95.7	780.6	576.5	548.7	27.77	20.759		
6,250.0	6,152.4	5,921.8	5,794.4	14.4	20.7	67.85	-96.8	793.3	602.1	574.2	27.89	21.591		
6,300.0	6,184.8	5,935.0	5,804.9	14.5	20.8	67.06	-97.5	801.4	629.6	601.6	28.00	22.485		
6,350.0	6,214.4	5,950.0	5,816.6	14.6	21.0	66.16	-98.3	810.7	658.6	630.5	28.12	23.422		
6,400.0	6,241.2	5,950.0	5,816.6	14.7	21.0	63.60	-98.3	810.7	689.1	661.0	28.14	24.487		
6,405.7	6,244.1	5,950.0	5,816.6	14.7	21.0	63.29	-98.3	810.7	692.7	664.6	28.14	24.616		
6,500.0	6,291.2	5,973.4	5,834.5	15.1	21.3	65.51	-99.6	825.7	754.7	726.0	28.77	26.231		
6,555.7	6,319.1	5,982.5	5,841.3	15.5	21.4	66.36	-100.1	831.7	794.1	765.0	29.17	27.221		
6,600.0	6,339.7	6,000.0	5,854.2	15.9	21.7	63.78	-101.2	843.5	826.3	797.1	29.27	28.232		
6,650.0	6,359.3	6,000.0	5,854.2	16.3	21.7	59.22	-101.2	843.5	862.3	833.3	29.08	29.653		
6,700.0	6,374.8	6,000.0	5,854.2	16.8	21.7	54.90	-101.2	843.5	898.2	869.4	28.76	31.233		
6,750.0	6,386.1	6,000.0	5,854.2	17.3	21.7	50.89	-101.2	843.5	933.7	905.3	28.37	32.916		
6,798.7	6,393.0	6,000.0	5,854.2	17.9	21.7	47.31	-101.2	843.5	967.6	939.7	27.99	34.573		
6,800.0	6,393.1	6,000.0	5,854.2	17.9	21.7	47.31	-101.2	843.5	968.5	940.5	28.00	34.591		
6,900.0	6,403.1	6,000.0	5,854.2	19.1	21.7	47.31	-101.2	843.5	1,040.2	1,011.2	28.91	35.977		
7,000.0	6,413.0	6,000.0	5,854.2	20.5	21.7	47.31	-101.2	843.5	1,116.2	1,086.3	29.91	37.320		
7,100.0	6,422.9	6,000.0	5,854.2	21.9	21.7	47.31	-101.2	843.5	1,195.7	1,164.7	30.97	38.605		
7,200.0	6,432.9	6,000.0	5,854.2	23.4	21.7	47.31	-101.2	843.5	1,278.1	1,246.0	32.10	39.822		
7,300.0	6,442.8	7,875.4	6,471.1	24.9	40.9	91.25	1,012.2	1,642.8	1,315.7	1,265.9	49.84	26.401		
7,400.0	6,452.7	7,975.4	6,481.0	26.5	41.5	91.25	1,111.7	1,642.8	1,315.8	1,262.9	52.89	24.878		
7,500.0	6,462.7	8,075.4	6,490.9	28.2	42.2	91.25	1,211.2	1,642.8	1,315.9	1,259.9	56.04	23.481		
7,600.0	6,472.6	8,175.4	6,500.9	29.8	43.0	91.25	1,310.7	1,642.8	1,316.0	1,256.8	59.28	22.202		
7,700.0	6,482.5	8,275.4	6,510.8	31.5	43.8	91.25	1,410.2	1,642.7	1,316.1	1,253.6	62.58	21.032		
7,800.0	6,492.5	8,375.4	6,520.7	33.3	44.7	91.25	1,509.7	1,642.7	1,316.2	1,250.3	65.94	19.962		
7,900.0	6,502.4	8,475.4	6,530.7	35.0	45.7	91.25	1,609.2	1,642.7	1,316.4	1,247.0	69.35	18.982		
8,000.0	6,512.3	8,575.4	6,540.6	36.8	46.7	91.25	1,708.7	1,642.7	1,316.5	1,243.7	72.80	18.083		
8,100.0	6,522.3	8,675.4	6,550.5	38.5	47.8	91.25	1,808.2	1,642.6	1,316.6	1,240.3	76.29	17.257		
8,200.0	6,532.2	8,775.4	6,560.4	40.3	49.0	91.25	1,907.7	1,642.6	1,316.7	1,236.9	79.82	16.497		
8,300.0	6,542.1	8,875.4	6,570.4	42.1	50.3	91.25	2,007.2	1,642.6	1,316.8	1,233.4	83.37	15.795		
8,400.0	6,552.1	8,975.4	6,580.3	43.9	51.6	91.25	2,106.7	1,642.5	1,316.9	1,229.9	86.94	15.147		
8,500.0	6,562.0	9,075.4	6,590.2	45.8	52.9	91.25	2,206.2	1,642.5	1,317.0	1,226.5	90.54	14.546		
8,600.0	6,571.9	9,175.4	6,600.2	47.6	54.3	91.25	2,305.7	1,642.5	1,317.1	1,222.9	94.16	13.988		
8,700.0	6,581.9	9,275.4	6,610.1	49.4	55.7	91.25	2,405.2	1,642.5	1,317.2	1,219.4	97.79	13.470		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 7-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.0	6,591.8	9,375.4	6,620.0	51.3	57.2	91.25	2,504.7	1,642.4	1,317.3	1,215.9	101.44	12.986		
8,900.0	6,601.7	9,475.4	6,630.0	53.1	58.7	91.25	2,604.2	1,642.4	1,317.4	1,212.3	105.10	12.534		
9,000.0	6,611.7	9,575.4	6,639.9	55.0	60.2	91.25	2,703.7	1,642.4	1,317.5	1,208.7	108.78	12.112		
9,100.0	6,621.6	9,675.4	6,649.8	56.8	61.8	91.25	2,803.3	1,642.3	1,317.6	1,205.2	112.47	11.716		
9,200.0	6,631.5	9,775.4	6,659.8	58.7	63.4	91.25	2,902.8	1,642.3	1,317.7	1,201.6	116.16	11.344		
9,300.0	6,641.4	9,875.4	6,669.7	60.5	65.0	91.25	3,002.3	1,642.3	1,317.8	1,198.0	119.87	10.994		
9,400.0	6,651.4	9,975.4	6,679.6	62.4	66.6	91.25	3,101.8	1,642.3	1,318.0	1,194.4	123.58	10.664		
9,500.0	6,661.3	10,075.4	6,689.6	64.3	68.3	91.25	3,201.3	1,642.2	1,318.1	1,190.8	127.31	10.353		
9,600.0	6,671.2	10,175.4	6,699.5	66.1	70.0	91.25	3,300.8	1,642.2	1,318.2	1,187.1	131.04	10.060		
9,700.0	6,681.2	10,275.4	6,709.4	68.0	71.6	91.25	3,400.3	1,642.2	1,318.3	1,183.5	134.77	9.782		
9,800.0	6,691.1	10,375.4	6,719.4	69.9	73.3	91.25	3,499.8	1,642.1	1,318.4	1,179.9	138.51	9.518		
9,900.0	6,701.0	10,475.4	6,729.3	71.8	75.1	91.25	3,599.3	1,642.1	1,318.5	1,176.2	142.26	9.268		
10,000.0	6,711.0	10,575.4	6,739.2	73.7	76.8	91.25	3,698.8	1,642.1	1,318.6	1,172.6	146.01	9.031		
10,100.0	6,720.9	10,675.4	6,749.2	75.6	78.5	91.25	3,798.3	1,642.1	1,318.7	1,168.9	149.77	8.805		
10,200.0	6,730.8	10,775.4	6,759.1	77.4	80.3	91.25	3,897.8	1,642.0	1,318.8	1,165.3	153.53	8.590		
10,300.0	6,740.8	10,875.4	6,769.0	79.3	82.0	91.25	3,997.3	1,642.0	1,318.9	1,161.6	157.29	8.385		
10,400.0	6,750.7	10,975.4	6,779.0	81.2	83.8	91.25	4,096.8	1,642.0	1,319.0	1,158.0	161.06	8.190		
10,500.0	6,760.6	11,075.4	6,788.9	83.1	85.6	91.25	4,196.3	1,642.0	1,319.1	1,154.3	164.83	8.003		
10,600.0	6,770.6	11,175.4	6,798.8	85.0	87.4	91.25	4,295.8	1,641.9	1,319.2	1,150.6	168.61	7.824		
10,700.0	6,780.5	11,275.4	6,808.7	86.9	89.1	91.25	4,395.3	1,641.9	1,319.3	1,147.0	172.38	7.653		
10,800.0	6,790.4	11,375.4	6,818.7	88.8	90.9	91.25	4,494.8	1,641.9	1,319.5	1,143.3	176.17	7.490		
10,900.0	6,800.4	11,475.4	6,828.6	90.7	92.7	91.25	4,594.4	1,641.8	1,319.6	1,139.6	179.95	7.333		
11,000.0	6,810.3	11,575.4	6,838.5	92.6	94.6	91.25	4,693.9	1,641.8	1,319.7	1,135.9	183.73	7.182		
11,100.0	6,820.2	11,675.4	6,848.5	94.5	96.4	91.25	4,793.4	1,641.8	1,319.8	1,132.2	187.52	7.038		
11,200.0	6,830.2	11,775.4	6,858.4	96.4	98.2	91.25	4,892.9	1,641.8	1,319.9	1,128.6	191.31	6.899		
11,300.0	6,840.1	11,875.4	6,868.3	98.3	100.0	91.25	4,992.4	1,641.7	1,320.0	1,124.9	195.11	6.766		
11,400.0	6,850.0	11,975.4	6,878.3	100.2	101.8	91.25	5,091.9	1,641.7	1,320.1	1,121.2	198.90	6.637		
11,500.0	6,860.0	12,075.4	6,888.2	102.1	103.7	91.25	5,191.4	1,641.7	1,320.2	1,117.5	202.70	6.513		
11,600.0	6,869.9	12,175.4	6,898.1	104.0	105.5	91.25	5,290.9	1,641.6	1,320.3	1,113.8	206.49	6.394		
11,700.0	6,879.8	12,275.4	6,908.1	105.9	107.3	91.25	5,390.4	1,641.6	1,320.4	1,110.1	210.29	6.279		
11,800.0	6,889.7	12,375.4	6,918.0	107.8	109.2	91.25	5,489.9	1,641.6	1,320.5	1,106.4	214.09	6.168		
11,900.0	6,899.7	12,475.4	6,927.9	109.7	111.0	91.25	5,589.4	1,641.6	1,320.6	1,102.7	217.90	6.061		
12,000.0	6,909.6	12,575.4	6,937.9	111.6	112.9	91.25	5,688.9	1,641.5	1,320.7	1,099.0	221.70	5.957		
12,100.0	6,919.5	12,675.4	6,947.8	113.5	114.7	91.25	5,788.4	1,641.5	1,320.8	1,095.3	225.50	5.857		
12,200.0	6,929.5	12,775.4	6,957.7	115.4	116.6	91.25	5,887.9	1,641.5	1,320.9	1,091.6	229.31	5.760		
12,251.7	6,934.6	12,827.1	6,962.9	116.4	117.5	91.25	5,939.4	1,641.5	1,321.0	1,089.7	231.28	5.712		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 8-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.28	-40.8	-18.8	44.9					
100.0	100.0	99.8	99.8	0.1	0.1	-155.28	-40.8	-18.8	44.9	44.7	0.19	238.248		
200.0	200.0	199.8	199.8	0.3	0.3	-155.28	-40.8	-18.8	44.9	44.3	0.64	70.447		
300.0	300.0	299.8	299.8	0.5	0.5	-155.28	-40.8	-18.8	44.9	43.8	1.09	41.325		
400.0	400.0	399.8	399.8	0.8	0.8	-155.28	-40.8	-18.8	44.9	43.4	1.54	29.238		
500.0	500.0	499.8	499.8	1.0	1.0	-155.28	-40.8	-18.8	44.9	43.0	1.99	22.621		
600.0	600.0	599.8	599.8	1.2	1.2	-155.28	-40.8	-18.8	44.9	42.5	2.44	18.447		
700.0	700.0	699.8	699.8	1.4	1.4	-155.28	-40.8	-18.8	44.9	42.1	2.89	15.573		
800.0	800.0	799.8	799.8	1.7	1.7	-155.28	-40.8	-18.8	44.9	41.6	3.34	13.474		
900.0	900.0	899.8	899.8	1.9	1.9	-155.28	-40.8	-18.8	44.9	41.2	3.78	11.874		
1,000.0	1,000.0	999.8	999.8	2.1	2.1	-155.28	-40.8	-18.8	44.9	40.7	4.23	10.613		
1,100.0	1,100.0	1,099.8	1,099.8	2.3	2.3	-155.28	-40.8	-18.8	44.9	40.3	4.68	9.594		
1,200.0	1,200.0	1,199.8	1,199.8	2.6	2.6	-155.28	-40.8	-18.8	44.9	39.8	5.13	8.754		
1,300.0	1,300.0	1,299.8	1,299.8	2.8	2.8	-155.28	-40.8	-18.8	44.9	39.4	5.58	8.049		
1,400.0	1,400.0	1,399.8	1,399.8	3.0	3.0	-155.28	-40.8	-18.8	44.9	38.9	6.03	7.449		
1,500.0	1,500.0	1,499.8	1,499.8	3.2	3.2	-155.28	-40.8	-18.8	44.9	38.5	6.48	6.933		
1,600.0	1,600.0	1,599.8	1,599.8	3.5	3.5	-155.28	-40.8	-18.8	44.9	38.0	6.93	6.483		
1,700.0	1,700.0	1,699.8	1,699.8	3.7	3.7	-155.28	-40.8	-18.8	44.9	37.6	7.38	6.088		
1,800.0	1,800.0	1,799.8	1,799.8	3.9	3.9	-155.28	-40.8	-18.8	44.9	37.1	7.83	5.739		
1,900.0	1,900.0	1,899.8	1,899.8	4.1	4.1	-155.28	-40.8	-18.8	44.9	36.7	8.28	5.427		
2,000.0	2,000.0	1,999.8	1,999.8	4.4	4.4	-155.28	-40.8	-18.8	44.9	36.2	8.73	5.148		
2,100.0	2,100.0	2,099.8	2,099.8	4.6	4.6	-155.28	-40.8	-18.8	44.9	35.8	9.18	4.896		
2,200.0	2,200.0	2,199.8	2,199.8	4.8	4.8	-155.28	-40.8	-18.8	44.9	35.3	9.63	4.667		
2,300.0	2,300.0	2,299.8	2,299.8	5.0	5.0	-155.28	-40.8	-18.8	44.9	34.9	10.08	4.459		
2,400.0	2,400.0	2,399.8	2,399.8	5.3	5.3	-155.28	-40.8	-18.8	44.9	34.4	10.53	4.269		
2,500.0	2,500.0	2,499.8	2,499.8	5.5	5.5	-155.28	-40.8	-18.8	44.9	34.0	10.98	4.094		
2,600.0	2,600.0	2,600.4	2,600.4	5.7	5.7	-157.35	-40.8	-17.0	44.2	32.8	11.41	3.876		
2,700.0	2,700.0	2,700.8	2,700.6	5.9	5.9	-163.93	-40.8	-11.8	42.5	30.6	11.84	3.589		
2,800.0	2,800.0	2,800.7	2,800.1	6.2	6.1	-175.76	-40.8	-3.0	40.9	28.7	12.27	3.337		
2,827.8	2,827.8	2,828.3	2,827.6	6.2	6.2	-180.00	-40.8	0.0	40.8	28.4	12.39	3.295 CC, ES		
2,900.0	2,900.0	2,899.8	2,898.5	6.4	6.3	167.48	-40.8	9.1	41.8	29.1	12.71	3.291 SF		
3,000.0	3,000.0	2,998.0	2,995.5	6.6	6.6	149.14	-40.8	24.4	47.7	34.6	13.17	3.624		
3,100.0	3,100.0	3,095.1	3,090.8	6.8	6.8	133.65	-40.8	42.8	59.8	46.2	13.66	4.380		
3,200.0	3,200.0	3,190.7	3,184.0	7.1	7.1	122.50	-40.8	64.1	77.6	63.4	14.16	5.479		
3,300.0	3,300.0	3,284.8	3,275.1	7.3	7.4	114.87	-40.8	88.0	100.2	85.5	14.68	6.821		
3,400.0	3,400.0	3,377.3	3,363.6	7.5	7.8	109.62	-40.8	114.5	126.8	111.6	15.23	8.329		
3,500.0	3,500.0	3,468.2	3,449.9	7.7	8.2	-21.15	-40.8	143.3	155.6	140.3	15.27	10.188		
3,600.0	3,599.8	3,558.2	3,534.3	7.9	8.6	-24.24	-40.8	174.4	184.7	169.1	15.64	11.812		
3,700.0	3,699.5	3,647.0	3,616.6	8.1	9.1	-26.91	-40.8	207.8	214.3	198.3	16.01	13.391		
3,800.0	3,798.7	3,734.8	3,696.9	8.3	9.6	-29.29	-40.8	243.2	244.4	228.0	16.37	14.926		
3,895.1	3,892.7	3,817.2	3,771.3	8.5	10.2	-31.35	-40.8	278.7	273.4	256.7	16.73	16.346		
3,900.0	3,897.5	3,821.4	3,775.1	8.5	10.2	-31.46	-40.8	280.6	275.0	258.2	16.75	16.416		
4,000.0	3,996.0	3,906.6	3,850.8	8.7	10.8	-33.61	-40.8	319.7	307.6	290.4	17.17	17.910		
4,100.0	4,094.5	3,990.0	3,923.7	9.0	11.5	-35.34	-40.8	360.0	343.3	325.7	17.61	19.495		
4,200.0	4,193.0	4,079.7	4,001.3	9.2	12.3	-36.86	-40.8	405.1	381.2	363.1	18.08	21.084		
4,300.0	4,291.5	4,171.7	4,080.8	9.5	13.2	-38.15	-40.8	451.4	419.4	400.8	18.57	22.579		
4,400.0	4,390.0	4,263.8	4,160.4	9.8	14.1	-39.22	-40.8	497.7	457.7	438.6	19.08	23.982		
4,500.0	4,488.5	4,355.8	4,240.0	10.0	15.0	-40.13	-40.8	544.0	496.1	476.5	19.61	25.295		
4,600.0	4,587.0	4,447.9	4,319.5	10.3	15.9	-40.90	-40.8	590.2	534.7	514.5	20.16	26.522		
4,700.0	4,685.5	4,539.9	4,399.1	10.6	16.8	-41.57	-40.8	636.5	573.3	552.6	20.72	27.667		
4,800.0	4,784.1	4,632.0	4,478.7	10.9	17.8	-42.16	-40.8	682.8	611.9	590.7	21.30	28.735		
4,900.0	4,882.6	4,724.0	4,558.2	11.2	18.7	-42.68	-40.8	729.1	650.7	628.8	21.88	29.731		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 8-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,981.1	4,816.1	4,637.8	11.5	19.7	-43.14	-40.8	775.4	689.4	666.9	22.49	30.660		
5,100.0	5,079.6	4,908.1	4,717.4	11.9	20.6	-43.55	-40.8	821.7	728.2	705.1	23.10	31.526		
5,200.0	5,178.1	5,000.2	4,796.9	12.2	21.6	-43.92	-40.8	868.0	767.0	743.3	23.72	32.335		
5,300.0	5,276.6	5,092.2	4,876.5	12.5	22.6	-44.25	-40.8	914.3	805.9	781.5	24.35	33.089		
5,400.0	5,375.1	5,184.3	4,956.1	12.9	23.6	-44.56	-40.8	960.6	844.7	819.7	25.00	33.794		
5,500.0	5,473.6	5,276.3	5,035.6	13.2	24.6	-44.83	-40.8	1,006.9	883.6	858.0	25.65	34.453		
5,577.5	5,550.0	5,347.7	5,097.3	13.5	25.3	-45.03	-40.8	1,042.8	913.8	887.6	26.16	34.934		
5,600.0	5,572.2	5,368.4	5,115.2	13.5	25.5	-37.06	-40.8	1,053.2	922.5	896.1	26.40	34.945		
5,650.0	5,621.7	5,414.6	5,155.1	13.7	26.0	-11.98	-40.8	1,076.4	941.7	914.8	26.92	34.979		
5,700.0	5,671.2	5,460.6	5,194.9	13.8	26.5	15.85	-40.8	1,099.5	960.5	933.1	27.42	35.036		
5,750.0	5,720.6	5,506.3	5,234.4	13.9	27.0	35.30	-40.8	1,122.5	979.0	951.1	27.86	35.134		
5,800.0	5,769.5	5,551.5	5,273.4	14.0	27.5	46.62	-40.8	1,145.2	997.1	968.8	28.26	35.285		
5,850.0	5,817.8	5,595.9	5,311.8	14.1	28.0	53.37	-40.8	1,167.6	1,014.8	986.2	28.59	35.493		
5,900.0	5,865.1	5,639.4	5,349.4	14.2	28.5	57.68	-40.8	1,189.4	1,032.2	1,003.3	28.87	35.757		
5,950.0	5,911.3	5,681.6	5,385.9	14.2	28.9	60.63	-40.8	1,210.7	1,049.3	1,020.2	29.09	36.074		
6,000.0	5,956.1	5,722.5	5,421.2	14.3	29.4	62.77	-40.8	1,231.2	1,066.3	1,037.0	29.26	36.436		
6,050.0	5,999.4	5,761.8	5,455.2	14.3	29.8	64.37	-40.8	1,251.0	1,083.2	1,053.7	29.41	36.833		
6,100.0	6,040.8	5,799.2	5,487.6	14.3	30.2	65.61	-40.8	1,269.8	1,100.1	1,070.5	29.53	37.255		
6,150.0	6,080.3	5,834.8	5,518.3	14.4	30.6	66.56	-40.8	1,287.7	1,117.1	1,087.5	29.64	37.689		
6,200.0	6,117.5	5,868.1	5,547.1	14.4	31.0	67.26	-40.8	1,304.5	1,134.4	1,104.7	29.75	38.126		
6,250.0	6,152.4	5,899.2	5,574.0	14.4	31.3	67.73	-40.8	1,320.1	1,152.0	1,122.2	29.88	38.558		
6,300.0	6,184.8	5,927.8	5,598.7	14.5	31.6	67.99	-40.8	1,334.5	1,170.1	1,140.1	30.02	38.977		
6,350.0	6,214.4	5,953.8	5,621.2	14.6	31.9	68.03	-40.8	1,347.6	1,188.7	1,158.5	30.18	39.382		
6,400.0	6,241.2	5,977.2	5,641.4	14.7	32.2	67.85	-40.8	1,359.3	1,207.8	1,177.5	30.37	39.771		
6,405.7	6,244.1	5,979.6	5,643.5	14.7	32.2	67.82	-40.8	1,360.5	1,210.1	1,179.7	30.39	39.815		
6,500.0	6,291.2	6,020.3	5,678.7	15.1	32.6	69.65	-40.8	1,381.0	1,249.2	1,218.2	30.96	40.344		
6,555.7	6,319.1	6,044.4	5,699.5	15.5	32.9	70.72	-40.8	1,393.1	1,274.4	1,243.1	31.37	40.632		
6,600.0	6,339.7	6,062.2	5,714.9	15.9	33.1	69.33	-40.8	1,402.1	1,295.0	1,263.4	31.61	40.970		
6,650.0	6,359.3	6,079.1	5,729.5	16.3	33.3	67.68	-40.8	1,410.6	1,318.2	1,286.3	31.86	41.371		
6,700.0	6,374.8	6,092.5	5,741.0	16.8	33.4	65.91	-40.8	1,417.3	1,341.2	1,309.1	32.10	41.784		
6,750.0	6,386.1	6,102.2	5,749.4	17.3	33.5	64.05	-40.8	1,422.2	1,364.0	1,331.7	32.33	42.192		
6,798.7	6,393.0	6,108.1	5,754.6	17.9	33.6	62.13	-40.8	1,425.2	1,385.9	1,353.3	32.57	42.556		
6,800.0	6,393.1	6,108.2	5,754.7	17.9	33.6	62.14	-40.8	1,425.2	1,386.5	1,353.9	32.58	42.555		
6,900.0	6,403.1	6,116.7	5,762.0	19.1	33.7	62.53	-40.8	1,429.5	1,434.0	1,400.2	33.75	42.491		
7,000.0	6,413.0	6,125.3	5,769.4	20.5	33.8	62.92	-40.8	1,433.8	1,486.6	1,451.6	35.02	42.454		
7,100.0	6,422.9	6,133.8	5,776.7	21.9	33.9	63.31	-40.8	1,438.1	1,543.9	1,507.5	36.37	42.445		
7,200.0	6,432.9	6,134.1	5,777.0	23.4	33.9	63.32	-40.8	1,438.2	1,605.4	1,567.7	37.72	42.556		
7,300.0	6,442.8	6,140.0	5,782.1	24.9	34.0	63.60	-40.8	1,441.2	1,670.5	1,631.4	39.19	42.630		
7,400.0	6,452.7	6,143.0	5,784.7	26.5	34.0	63.74	-40.8	1,442.8	1,739.0	1,698.3	40.67	42.760		
7,500.0	6,462.7	6,150.0	5,790.7	28.2	34.1	64.05	-40.8	1,446.4	1,810.4	1,768.2	42.24	42.864		
7,600.0	6,472.6	6,150.0	5,790.7	29.8	34.1	64.05	-40.8	1,446.4	1,884.4	1,840.6	43.76	43.062		
7,700.0	6,482.5	6,150.0	5,790.7	31.5	34.1	64.05	-40.8	1,446.4	1,960.7	1,915.3	45.31	43.273		
7,800.0	6,492.5	6,150.0	5,790.7	33.3	34.1	64.05	-40.8	1,446.4	2,037.0	1,991.5	46.86	43.484		
7,900.0	6,502.4	6,150.0	5,790.7	35.0	34.1	64.05	-40.8	1,446.4	2,113.3	2,067.7	48.41	43.695		
8,000.0	6,512.3	6,150.0	5,790.7	36.8	34.1	64.05	-40.8	1,446.4	2,189.6	2,143.8	49.96	43.906		
8,100.0	6,522.3	6,150.0	5,790.7	38.5	34.1	64.05	-40.8	1,446.4	2,265.9	2,218.0	51.51	44.117		
8,200.0	6,532.2	6,150.0	5,790.7	40.3	34.1	64.05	-40.8	1,446.4	2,342.2	2,294.3	53.06	44.328		
8,300.0	6,542.1	6,150.0	5,790.7	42.1	34.1	64.05	-40.8	1,446.4	2,418.5	2,370.6	54.61	44.539		
8,400.0	6,552.1	6,150.0	5,790.7	43.9	34.1	64.05	-40.8	1,446.4	2,494.8	2,446.9	56.16	44.750		
8,500.0	6,562.0	6,150.0	5,790.7	45.8	34.1	64.05	-40.8	1,446.4	2,571.1	2,523.2	57.71	44.961		
8,600.0	6,571.9	6,150.0	5,790.7	47.6	34.1	64.05	-40.8	1,446.4	2,647.4	2,601.5	59.26	45.172		
8,700.0	6,581.9	6,150.0	5,790.7	49.4	34.1	64.05	-40.8	1,446.4	2,723.7	2,677.8	60.81	45.383		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 5-6H
Project:	North Park Basin	TVD Reference:	KB @ 8146.2usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8146.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 5-6H	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

Offset Design T7N-R80W-S7 - Marr 0780 8-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.0	6,591.8	9,539.0	6,638.5	51.3	65.9	91.38	2,502.5	2,301.2	1,976.4	1,874.4	102.02	19.372		
8,900.0	6,601.7	9,639.0	6,648.4	53.1	67.1	91.37	2,602.0	2,301.2	1,976.5	1,870.9	105.65	18.708		
9,000.0	6,611.7	9,739.0	6,658.4	55.0	68.2	91.37	2,701.5	2,301.2	1,976.7	1,867.4	109.30	18.085		
9,100.0	6,621.6	9,839.0	6,668.3	56.8	69.5	91.37	2,801.0	2,301.2	1,976.8	1,863.8	112.95	17.501		
9,200.0	6,631.5	9,939.0	6,678.2	58.7	70.7	91.37	2,900.5	2,301.2	1,976.9	1,860.3	116.62	16.952		
9,300.0	6,641.4	10,039.0	6,688.2	60.5	72.0	91.37	3,000.0	2,301.2	1,977.1	1,856.8	120.30	16.434		
9,400.0	6,651.4	10,139.0	6,698.1	62.4	73.4	91.37	3,099.5	2,301.2	1,977.2	1,853.2	123.99	15.946		
9,500.0	6,661.3	10,239.0	6,708.0	64.3	74.8	91.37	3,199.0	2,301.3	1,977.3	1,849.6	127.69	15.486		
9,600.0	6,671.2	10,339.0	6,718.0	66.1	76.2	91.37	3,298.5	2,301.3	1,977.5	1,846.1	131.40	15.050		
9,700.0	6,681.2	10,439.0	6,727.9	68.0	77.6	91.37	3,398.0	2,301.3	1,977.6	1,842.5	135.11	14.637		
9,800.0	6,691.1	10,539.0	6,737.8	69.9	79.1	91.37	3,497.5	2,301.3	1,977.7	1,838.9	138.83	14.246		
9,900.0	6,701.0	10,639.0	6,747.8	71.8	80.6	91.37	3,597.0	2,301.3	1,977.9	1,835.3	142.56	13.874		
10,000.0	6,711.0	10,739.0	6,757.7	73.7	82.1	91.37	3,696.5	2,301.3	1,978.0	1,831.7	146.29	13.521		
10,100.0	6,720.9	10,839.0	6,767.6	75.6	83.6	91.37	3,796.1	2,301.3	1,978.2	1,828.1	150.03	13.185		
10,200.0	6,730.8	10,939.0	6,777.6	77.4	85.2	91.37	3,895.6	2,301.3	1,978.3	1,824.5	153.78	12.865		
10,300.0	6,740.8	11,039.0	6,787.5	79.3	86.8	91.37	3,995.1	2,301.3	1,978.4	1,820.9	157.52	12.559		
10,400.0	6,750.7	11,139.0	6,797.4	81.2	88.4	91.37	4,094.6	2,301.3	1,978.6	1,817.3	161.28	12.268		
10,500.0	6,760.6	11,239.0	6,807.4	83.1	90.0	91.37	4,194.1	2,301.3	1,978.7	1,813.7	165.04	11.990		
10,600.0	6,770.6	11,339.0	6,817.3	85.0	91.7	91.37	4,293.6	2,301.3	1,978.8	1,810.0	168.80	11.723		
10,700.0	6,780.5	11,439.0	6,827.2	86.9	93.3	91.37	4,393.1	2,301.3	1,979.0	1,806.4	172.56	11.468		
10,800.0	6,790.4	11,539.0	6,837.2	88.8	95.0	91.37	4,492.6	2,301.3	1,979.1	1,802.8	176.33	11.224		
10,900.0	6,800.4	11,639.0	6,847.1	90.7	96.7	91.37	4,592.1	2,301.3	1,979.3	1,799.2	180.10	10.990		
11,000.0	6,810.3	11,739.0	6,857.0	92.6	98.3	91.37	4,691.6	2,301.3	1,979.4	1,795.5	183.88	10.765		
11,100.0	6,820.2	11,839.0	6,866.9	94.5	100.0	91.37	4,791.1	2,301.3	1,979.5	1,791.9	187.65	10.549		
11,200.0	6,830.2	11,939.0	6,876.9	96.4	101.8	91.37	4,890.6	2,301.3	1,979.7	1,788.2	191.43	10.341		
11,300.0	6,840.1	12,039.0	6,886.8	98.3	103.5	91.37	4,990.1	2,301.3	1,979.8	1,784.6	195.21	10.142		
11,400.0	6,850.0	12,139.0	6,896.7	100.2	105.2	91.37	5,089.6	2,301.3	1,979.9	1,780.9	199.00	9.950		
11,500.0	6,860.0	12,239.0	6,906.7	102.1	107.0	91.37	5,189.1	2,301.3	1,980.1	1,777.3	202.78	9.764		
11,600.0	6,869.9	12,339.0	6,916.6	104.0	108.7	91.37	5,288.6	2,301.3	1,980.2	1,773.6	206.57	9.586		
11,700.0	6,879.8	12,439.0	6,926.5	105.9	110.5	91.37	5,388.1	2,301.3	1,980.3	1,770.0	210.36	9.414		
11,800.0	6,889.7	12,539.0	6,936.5	107.8	112.2	91.37	5,487.6	2,301.3	1,980.5	1,766.3	214.16	9.248		
11,900.0	6,899.7	12,639.0	6,946.4	109.7	114.0	91.37	5,587.2	2,301.3	1,980.6	1,762.7	217.95	9.087		
12,000.0	6,909.6	12,739.0	6,956.3	111.6	115.8	91.37	5,686.7	2,301.3	1,980.8	1,759.0	221.75	8.933		
12,100.0	6,919.5	12,839.0	6,966.3	113.5	117.5	91.37	5,786.2	2,301.3	1,980.9	1,755.4	225.54	8.783		
12,200.0	6,929.5	12,939.0	6,976.2	115.4	119.3	91.37	5,885.7	2,301.3	1,981.0	1,751.7	229.34	8.638		
12,251.7	6,934.6	12,990.7	6,981.3	116.4	120.2	91.37	5,937.1	2,301.3	1,981.1	1,749.8	231.31	8.565		

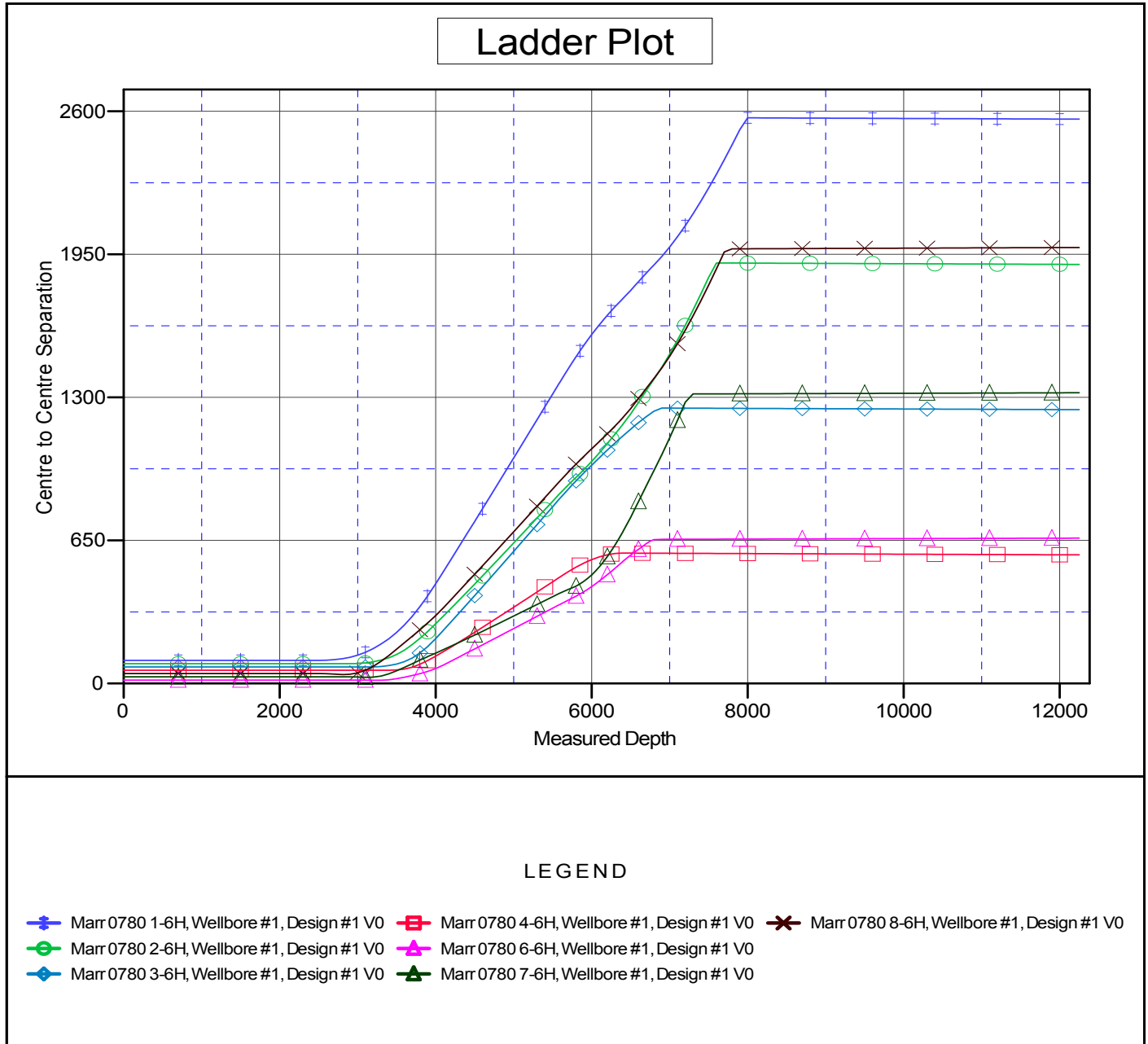
SandRidge Energy

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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 Depths are relative to KB @ 8146.2usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Marr 0780 5-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.59°



SandRidge Energy

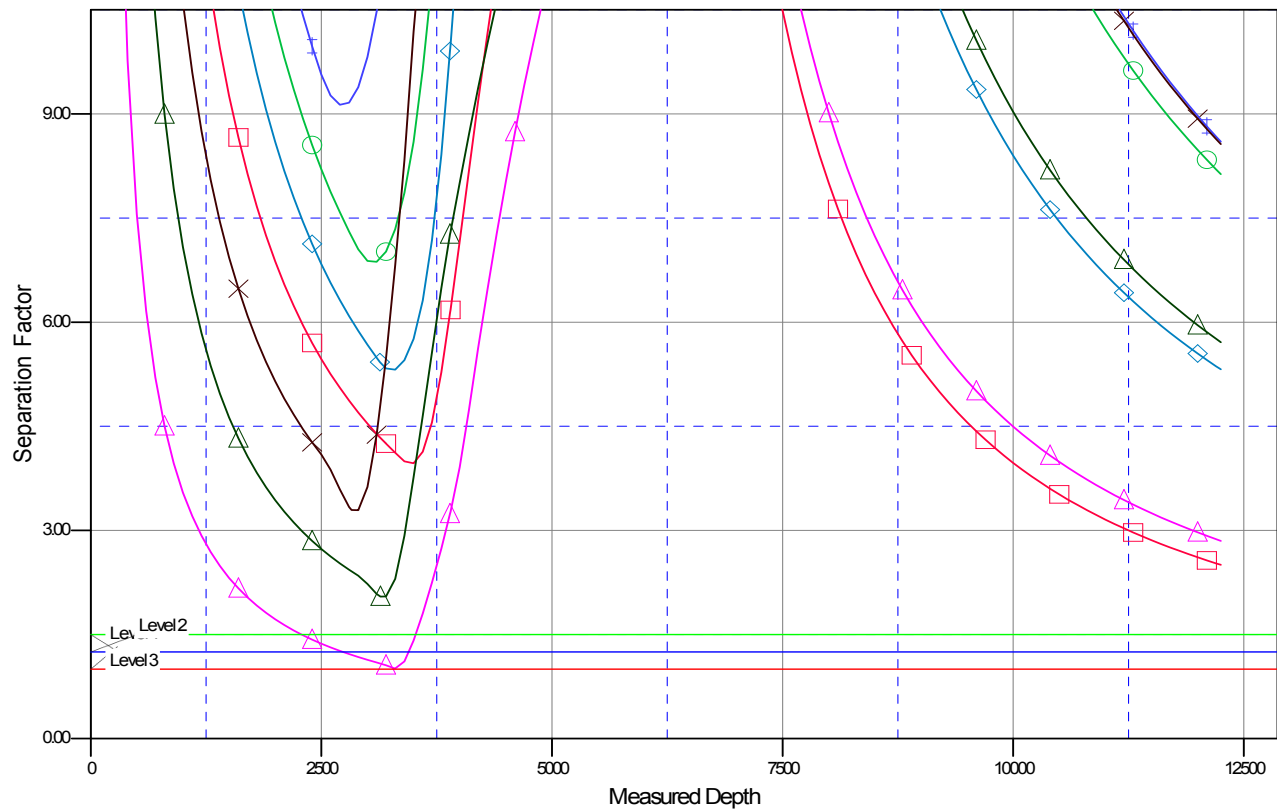
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Separation Factor Plot



LEGEND

- ◆ Marr 0780 1-6H, Wellbore #1, Design #1 V0
■ Marr 0780 4-6H, Wellbore #1, Design #1 V0
✕ Marr 0780 8-6H, Wellbore #1, Design #1 V0
- Marr 0780 2-6H, Wellbore #1, Design #1 V0
▲ Marr 0780 6-6H, Wellbore #1, Design #1 V0
- ◆ Marr 0780 3-6H, Wellbore #1, Design #1 V0
▲ Marr 0780 7-6H, Wellbore #1, Design #1 V0