

SandRidge Energy

North Park Basin

T7N-R80W-S7

Marr 0780 1-6H

Wellbore #1

Design #1

Anticollision Report

09 May, 2016

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	12,987.3	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured	Offset Measured	Distance		Separation Factor	Warning
	Depth (usft)	Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
T7N-R80W-S7						
Marr 0780 2-6H - Wellbore #1 - Design #1	2,500.0	2,500.0	15.0	4.0	1.363	Level 3, CC, ES, SF
Marr 0780 3-6H - Wellbore #1 - Design #1	2,500.0	2,500.0	30.0	19.0	2.729	CC, ES
Marr 0780 3-6H - Wellbore #1 - Design #1	2,600.0	2,600.0	30.7	19.3	2.692	SF
Marr 0780 4-6H - Wellbore #1 - Design #1	2,500.0	2,500.0	45.0	34.0	4.098	CC, ES
Marr 0780 4-6H - Wellbore #1 - Design #1	2,600.0	2,600.0	45.7	34.3	4.007	SF
Marr 0780 5-6H - Wellbore #1 - Design #1	2,500.0	2,501.2	105.0	94.0	9.562	CC, ES
Marr 0780 5-6H - Wellbore #1 - Design #1	12,987.9	12,251.7	2,564.3	2,266.1	8.599	SF
Marr 0780 6-6H - Wellbore #1 - Design #1	2,500.0	2,501.1	90.0	79.0	8.195	CC, ES
Marr 0780 6-6H - Wellbore #1 - Design #1	2,700.0	2,700.9	93.1	81.3	7.861	SF
Marr 0780 7-6H - Wellbore #1 - Design #1	2,500.0	2,501.0	75.0	64.0	6.831	CC, ES
Marr 0780 7-6H - Wellbore #1 - Design #1	2,700.0	2,700.8	78.2	66.3	6.600	SF
Marr 0780 8-6H - Wellbore #1 - Design #1	2,466.3	2,467.3	60.1	49.2	5.546	CC
Marr 0780 8-6H - Wellbore #1 - Design #1	2,500.0	2,501.0	60.1	49.1	5.470	ES
Marr 0780 8-6H - Wellbore #1 - Design #1	2,600.0	2,600.0	61.6	50.2	5.403	SF

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	24.39	13.6	6.2	15.0						
100.0	100.0	100.0	100.0	0.1	0.1	24.39	13.6	6.2	15.0	14.8	0.19	79.265			
200.0	200.0	200.0	200.0	0.3	0.3	24.39	13.6	6.2	15.0	14.3	0.64	23.445			
300.0	300.0	300.0	300.0	0.5	0.5	24.39	13.6	6.2	15.0	13.9	1.09	13.757			
400.0	400.0	400.0	400.0	0.8	0.8	24.39	13.6	6.2	15.0	13.4	1.54	9.734			
500.0	500.0	500.0	500.0	1.0	1.0	24.39	13.6	6.2	15.0	13.0	1.99	7.532			
600.0	600.0	600.0	600.0	1.2	1.2	24.39	13.6	6.2	15.0	12.5	2.44	6.142			
700.0	700.0	700.0	700.0	1.4	1.4	24.39	13.6	6.2	15.0	12.1	2.89	5.186			
800.0	800.0	800.0	800.0	1.7	1.7	24.39	13.6	6.2	15.0	11.6	3.34	4.487			
900.0	900.0	900.0	900.0	1.9	1.9	24.39	13.6	6.2	15.0	11.2	3.79	3.954			
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	24.39	13.6	6.2	15.0	10.7	4.23	3.534			
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	24.39	13.6	6.2	15.0	10.3	4.68	3.195			
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	24.39	13.6	6.2	15.0	9.8	5.13	2.915			
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	24.39	13.6	6.2	15.0	9.4	5.58	2.680			

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

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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

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		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	24.39	13.6	6.2	15.0	8.9	6.03	2.481		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	24.39	13.6	6.2	15.0	8.5	6.48	2.309		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	24.39	13.6	6.2	15.0	8.0	6.93	2.159		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	24.39	13.6	6.2	15.0	7.6	7.38	2.027		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	24.39	13.6	6.2	15.0	7.1	7.83	1.911	Level 4	
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	24.39	13.6	6.2	15.0	6.7	8.28	1.807	Level 4	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	24.39	13.6	6.2	15.0	6.2	8.73	1.714	Level 4	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	24.39	13.6	6.2	15.0	5.8	9.18	1.630	Level 4	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	24.39	13.6	6.2	15.0	5.3	9.63	1.554	Level 4	
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	24.39	13.6	6.2	15.0	4.9	10.08	1.485	Level 3	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	24.39	13.6	6.2	15.0	4.4	10.53	1.421	Level 3	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	24.39	13.6	6.2	15.0	4.0	10.98	1.363	Level 3, CC, ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	120.16	13.6	6.2	15.8	4.4	11.41	1.381	Level 3	
2,700.0	2,699.8	2,699.8	2,699.8	5.9	5.9	133.92	13.6	6.2	18.9	7.1	11.83	1.601	Level 4	
2,800.0	2,799.5	2,799.5	2,799.5	6.1	6.2	147.93	13.6	6.2	25.8	13.5	12.24	2.106		
2,900.0	2,898.7	2,898.7	2,898.7	6.4	6.4	158.00	13.6	6.2	36.7	24.1	12.63	2.905		
3,000.0	2,997.5	2,999.2	2,999.2	6.7	6.6	164.17	13.5	4.5	49.9	36.9	13.00	3.838		
3,100.0	3,095.6	3,100.2	3,100.0	7.0	6.8	168.02	13.0	-0.8	63.3	50.0	13.34	4.747		
3,200.0	3,193.1	3,201.7	3,201.1	7.5	7.0	170.74	12.3	-9.6	76.9	63.2	13.68	5.620		
3,300.0	3,289.6	3,303.7	3,302.3	8.0	7.2	172.84	11.2	-22.1	90.5	76.5	14.01	6.455		
3,400.0	3,385.3	3,406.2	3,403.6	8.7	7.5	174.56	9.8	-38.3	104.0	89.7	14.35	7.251		
3,500.0	3,479.8	3,509.2	3,504.6	9.4	7.7	176.04	8.0	-58.1	117.6	102.9	14.68	8.009		
3,600.0	3,573.2	3,612.7	3,605.4	10.3	8.0	177.36	6.0	-81.7	131.1	116.1	15.02	8.729		
3,700.0	3,665.2	3,711.5	3,701.1	11.3	8.3	178.46	3.9	-105.9	146.3	131.0	15.35	9.532		
3,800.0	3,755.8	3,809.7	3,796.3	12.5	8.7	179.36	1.8	-129.9	165.1	149.4	15.69	10.521		
3,871.4	3,819.6	3,879.3	3,863.8	13.4	8.9	179.90	0.3	-147.0	180.6	164.6	15.94	11.330		
3,900.0	3,845.0	3,907.2	3,890.8	13.8	9.0	-179.91	-0.3	-153.8	187.1	171.1	16.08	11.637		
4,000.0	3,933.8	4,004.5	3,985.1	15.1	9.4	-179.34	-2.3	-177.6	210.1	193.5	16.59	12.665		
4,100.0	4,022.5	4,101.8	4,079.5	16.5	9.8	-178.88	-4.4	-201.4	233.0	215.9	17.11	13.621		
4,200.0	4,111.3	4,199.1	4,173.8	18.0	10.2	-178.51	-6.5	-225.2	256.0	238.4	17.64	14.509		
4,300.0	4,200.0	4,296.4	4,268.1	19.4	10.6	-178.19	-8.6	-249.1	279.0	260.8	18.19	15.335		
4,400.0	4,288.8	4,393.7	4,362.5	20.9	11.0	-177.93	-10.6	-272.9	302.0	283.2	18.75	16.104		
4,500.0	4,377.6	4,491.1	4,456.8	22.4	11.4	-177.70	-12.7	-296.7	325.0	305.6	19.32	16.819		
4,600.0	4,466.3	4,588.4	4,551.1	23.8	11.8	-177.50	-14.8	-320.5	347.9	328.1	19.90	17.485		
4,700.0	4,555.1	4,685.7	4,645.5	25.3	12.3	-177.32	-16.8	-344.3	370.9	350.5	20.49	18.106		
4,800.0	4,643.8	4,783.0	4,739.8	26.8	12.7	-177.17	-18.9	-368.2	393.9	372.9	21.08	18.686		
4,900.0	4,732.6	4,880.3	4,834.1	28.4	13.2	-177.03	-21.0	-392.0	417.0	395.3	21.69	19.227		
5,000.0	4,821.4	4,977.6	4,928.4	29.9	13.6	-176.91	-23.1	-415.8	440.0	417.7	22.29	19.734		
5,100.0	4,910.1	5,074.9	5,022.8	31.4	14.1	-176.80	-25.1	-439.6	463.0	440.1	22.91	20.208		
5,200.0	4,998.9	5,172.2	5,117.1	32.9	14.5	-176.70	-27.2	-463.4	486.0	462.4	23.53	20.652		
5,300.0	5,087.6	5,269.6	5,211.4	34.5	15.0	-176.61	-29.3	-487.3	509.0	484.8	24.16	21.069		
5,400.0	5,176.4	5,366.9	5,305.8	36.0	15.5	-176.53	-31.3	-511.1	532.0	507.2	24.79	21.461		
5,500.0	5,265.1	5,464.2	5,400.1	37.5	16.0	-176.45	-33.4	-534.9	555.0	529.6	25.42	21.830		
5,600.0	5,353.9	5,561.5	5,494.4	39.1	16.4	-176.38	-35.5	-558.7	578.0	552.0	26.06	22.177		
5,700.0	5,442.7	5,659.2	5,588.9	40.6	19.2	-175.21	-48.3	-705.8	588.9	561.1	27.74	21.230		
5,800.0	5,531.4	5,751.0	5,686.7	42.2	23.7	-171.55	-68.2	-934.8	545.1	514.6	30.44	17.905		
5,900.0	5,620.2	5,859.1	5,793.8	43.7	25.3	-169.79	-74.5	-1,007.4	492.7	460.7	32.00	15.398		
6,000.0	5,708.9	5,953.5	5,883.2	45.3	26.9	-167.97	-78.2	-1,083.6	440.6	406.8	33.81	13.033		
6,037.9	5,742.6	6,018.1	6,000.9	45.8	27.5	-167.67	-76.2	-1,113.3	420.6	386.3	34.31	12.260		
6,050.0	5,753.3	6,029.2	6,010.6	46.0	27.7	-167.77	-75.1	-1,122.8	414.3	380.0	34.30	12.079		
6,100.0	5,796.4	6,075.8	6,057.4	46.9	28.5	-168.58	-68.3	-1,162.2	389.7	355.7	33.98	11.469		
6,150.0	5,837.6	6,122.9	6,104.5	47.9	29.3	-170.12	-57.7	-1,201.3	367.9	334.7	33.20	11.083		

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

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	Survey Calculation Method:	Minimum Curvature
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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		
6,200.0	5,876.8	6,569.5	6,178.0	48.9	30.1	-172.40	-43.5	-1,238.9	349.2	317.2	32.03	10.904		
6,250.0	5,913.7	6,614.6	6,200.4	50.1	30.9	-175.32	-26.4	-1,274.1	334.3	303.5	30.73	10.877		
6,300.0	5,948.2	6,657.5	6,221.3	51.4	31.6	-178.73	-7.1	-1,306.2	323.8	294.1	29.73	10.893		
6,350.0	5,980.1	6,697.7	6,240.3	52.7	32.2	177.57	13.5	-1,335.0	318.7	289.3	29.47	10.816		
6,366.4	5,990.0	6,710.2	6,246.1	53.2	32.4	176.33	20.4	-1,343.7	318.4	288.8	29.60	10.755		
6,400.0	6,009.2	6,734.8	6,257.3	54.1	32.8	173.77	34.6	-1,360.3	319.9	289.6	30.25	10.573		
6,445.1	6,032.9	6,765.4	6,270.9	55.4	33.2	170.36	53.4	-1,380.3	326.6	294.7	31.90	10.238		
6,500.0	6,060.4	6,800.0	6,285.7	57.1	33.7	166.47	76.3	-1,401.6	340.4	304.9	35.54	9.578		
6,595.1	6,107.9	6,850.0	6,306.1	59.9	34.3	160.74	111.9	-1,430.2	374.4	332.0	42.42	8.826		
6,600.0	6,110.4	6,850.0	6,306.1	60.1	34.3	160.24	111.9	-1,430.2	376.5	333.8	42.73	8.812		
6,650.0	6,135.6	6,877.0	6,316.5	61.3	34.6	152.27	132.4	-1,444.4	398.5	349.1	49.34	8.076		
6,700.0	6,160.8	6,900.0	6,325.0	62.6	34.9	145.00	150.4	-1,455.8	421.4	366.3	55.14	7.643		
6,750.0	6,186.0	6,926.0	6,334.2	63.8	35.2	137.87	171.5	-1,467.9	444.7	384.2	60.52	7.348		
6,800.0	6,210.9	6,950.0	6,342.3	64.9	35.4	131.36	191.6	-1,478.3	468.0	403.2	64.74	7.228		
6,850.0	6,235.4	6,975.2	6,350.4	66.0	35.7	125.27	213.2	-1,488.3	490.7	422.8	67.97	7.220		
6,900.0	6,259.2	7,000.0	6,357.9	67.1	35.9	119.71	235.0	-1,497.5	512.8	442.7	70.08	7.317		
6,950.0	6,282.2	7,024.4	6,364.9	68.0	36.1	114.67	256.9	-1,505.6	533.9	462.8	71.09	7.510		
7,000.0	6,304.2	7,050.0	6,371.7	68.9	36.3	110.09	280.4	-1,513.2	553.8	482.6	71.16	7.783		
7,050.0	6,325.0	7,073.7	6,377.6	69.7	36.5	106.05	302.5	-1,519.5	572.4	502.2	70.23	8.150		
7,100.0	6,344.5	7,100.0	6,383.6	70.4	36.7	102.41	327.4	-1,525.4	589.5	521.0	68.58	8.596		
7,150.0	6,362.5	7,123.1	6,388.4	71.0	36.8	99.27	349.5	-1,529.8	605.1	539.0	66.13	9.150		
7,200.0	6,379.0	7,150.0	6,393.4	71.6	37.0	96.47	375.6	-1,534.0	619.0	555.8	63.20	9.795		
7,250.0	6,393.6	7,172.5	6,397.2	72.0	37.1	94.15	397.6	-1,536.6	631.2	571.4	59.73	10.568		
7,300.0	6,406.4	7,200.0	6,401.2	72.4	37.3	92.14	424.8	-1,538.8	641.6	585.5	56.07	11.442		
7,350.0	6,417.3	7,221.9	6,403.9	72.7	37.4	90.55	446.5	-1,539.7	650.1	597.8	52.25	12.442		
7,400.0	6,426.2	7,254.0	6,407.2	73.0	37.5	89.25	478.4	-1,539.9	656.6	607.9	48.71	13.480		
7,450.0	6,432.9	7,303.8	6,412.2	73.2	37.7	88.35	528.0	-1,539.9	659.8	614.0	45.79	14.410		
7,466.6	6,434.7	7,320.5	6,413.8	73.2	37.8	88.18	544.5	-1,539.9	660.0	615.0	44.97	14.678		
7,500.0	6,438.0	7,353.8	6,417.1	73.3	38.0	88.18	577.7	-1,539.9	660.0	614.0	45.97	14.358		
7,600.0	6,447.9	7,453.8	6,427.1	73.7	38.5	88.18	677.3	-1,539.9	660.0	611.1	48.94	13.487		
7,700.0	6,457.9	7,553.8	6,437.0	74.2	39.1	88.18	776.8	-1,539.9	660.0	607.8	52.21	12.642		
7,800.0	6,467.8	7,653.8	6,446.9	74.8	39.8	88.18	876.3	-1,539.9	660.0	604.3	55.73	11.843		
7,900.0	6,477.7	7,753.8	6,456.9	75.4	40.6	88.18	975.8	-1,539.9	660.0	600.6	59.45	11.102		
8,000.0	6,487.7	7,853.8	6,466.8	76.1	41.4	88.18	1,075.3	-1,539.9	660.0	596.7	63.34	10.420		
8,100.0	6,497.6	7,953.8	6,476.7	76.9	42.3	88.18	1,174.8	-1,539.9	660.0	592.7	67.37	9.797		
8,200.0	6,507.5	8,053.8	6,486.7	77.7	43.2	88.18	1,274.3	-1,539.9	660.0	588.5	71.51	9.229		
8,300.0	6,517.5	8,153.8	6,496.6	78.7	44.3	88.18	1,373.8	-1,539.9	660.0	584.3	75.75	8.713		
8,400.0	6,527.4	8,253.8	6,506.5	79.7	45.3	88.18	1,473.3	-1,539.9	660.0	580.0	80.07	8.243		
8,500.0	6,537.3	8,353.8	6,516.5	80.9	46.5	88.18	1,572.8	-1,539.9	660.0	575.6	84.46	7.815		
8,600.0	6,547.2	8,453.8	6,526.4	82.1	47.7	88.18	1,672.3	-1,539.9	660.0	571.1	88.91	7.424		
8,700.0	6,557.2	8,553.8	6,536.3	83.4	48.9	88.18	1,771.8	-1,539.9	660.0	566.6	93.40	7.067		
8,800.0	6,567.1	8,653.8	6,546.3	84.9	50.2	88.18	1,871.3	-1,539.8	660.1	562.1	97.94	6.739		
8,900.0	6,577.0	8,753.8	6,556.2	86.4	51.6	88.18	1,970.8	-1,539.8	660.1	557.5	102.52	6.439		
9,000.0	6,587.0	8,853.8	6,566.1	88.0	52.9	88.18	2,070.3	-1,539.8	660.1	552.9	107.12	6.162		
9,100.0	6,596.9	8,953.8	6,576.1	89.7	54.3	88.18	2,169.8	-1,539.8	660.1	548.3	111.76	5.906		
9,200.0	6,606.8	9,053.8	6,586.0	91.5	55.8	88.18	2,269.3	-1,539.8	660.1	543.6	116.42	5.670		
9,300.0	6,616.8	9,153.8	6,595.9	93.3	57.3	88.18	2,368.8	-1,539.8	660.1	539.0	121.11	5.450		
9,400.0	6,626.7	9,253.8	6,605.9	95.3	58.8	88.18	2,468.4	-1,539.8	660.1	534.3	125.81	5.247		
9,500.0	6,636.6	9,353.8	6,615.8	97.3	60.3	88.18	2,567.9	-1,539.8	660.1	529.5	130.53	5.057		
9,600.0	6,646.6	9,453.8	6,625.7	99.4	61.9	88.18	2,667.4	-1,539.8	660.1	524.8	135.27	4.880		
9,700.0	6,656.5	9,553.8	6,635.6	101.5	63.4	88.18	2,766.9	-1,539.8	660.1	520.1	140.02	4.714		
9,800.0	6,666.4	9,653.8	6,645.6	103.7	65.0	88.18	2,866.4	-1,539.8	660.1	515.3	144.78	4.559		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
9,900.0	6,676.4	9,753.8	6,655.5	106.0	66.6	88.18	2,965.9	-1,539.8	660.1	510.5	149.56	4.414		
10,000.0	6,686.3	9,853.8	6,665.4	108.3	68.3	88.18	3,065.4	-1,539.8	660.1	505.7	154.35	4.277		
10,100.0	6,696.2	9,953.8	6,675.4	110.6	69.9	88.18	3,164.9	-1,539.8	660.1	500.9	159.14	4.148		
10,200.0	6,706.2	10,053.8	6,685.3	113.0	71.6	88.18	3,264.4	-1,539.7	660.1	496.1	163.95	4.026		
10,300.0	6,716.1	10,153.8	6,695.2	115.5	73.3	88.18	3,363.9	-1,539.7	660.1	491.3	168.76	3.911		
10,400.0	6,726.0	10,253.8	6,705.2	117.9	75.0	88.18	3,463.4	-1,539.7	660.1	486.5	173.58	3.803		
10,500.0	6,736.0	10,353.8	6,715.1	120.5	76.7	88.18	3,562.9	-1,539.7	660.1	481.7	178.40	3.700		
10,600.0	6,745.9	10,453.8	6,725.0	123.0	78.4	88.18	3,662.4	-1,539.7	660.1	476.9	183.24	3.602		
10,700.0	6,755.8	10,553.8	6,735.0	125.6	80.1	88.18	3,761.9	-1,539.7	660.1	472.0	188.08	3.510		
10,800.0	6,765.8	10,653.8	6,744.9	128.2	81.9	88.18	3,861.4	-1,539.7	660.1	467.2	192.92	3.422		
10,900.0	6,775.7	10,753.8	6,754.8	130.8	83.6	88.18	3,960.9	-1,539.7	660.1	462.3	197.77	3.338		
11,000.0	6,785.6	10,853.8	6,764.8	133.4	85.4	88.18	4,060.4	-1,539.7	660.1	457.5	202.62	3.258		
11,100.0	6,795.5	10,953.8	6,774.7	136.1	87.1	88.18	4,159.9	-1,539.7	660.1	452.6	207.48	3.182		
11,200.0	6,805.5	11,053.8	6,784.6	138.8	88.9	88.18	4,259.5	-1,539.7	660.1	447.8	212.34	3.109		
11,300.0	6,815.4	11,153.8	6,794.6	141.5	90.7	88.18	4,359.0	-1,539.7	660.1	442.9	217.20	3.039		
11,400.0	6,825.3	11,253.8	6,804.5	144.2	92.4	88.18	4,458.5	-1,539.7	660.1	438.1	222.07	2.973		
11,500.0	6,835.3	11,353.8	6,814.4	146.9	94.2	88.18	4,558.0	-1,539.6	660.1	433.2	226.94	2.909		
11,600.0	6,845.2	11,453.8	6,824.4	149.7	96.0	88.18	4,657.5	-1,539.6	660.1	428.3	231.82	2.848		
11,700.0	6,855.1	11,553.8	6,834.3	152.4	97.8	88.18	4,757.0	-1,539.6	660.1	423.4	236.69	2.789		
11,800.0	6,865.1	11,653.8	6,844.2	155.2	99.6	88.18	4,856.5	-1,539.6	660.1	418.6	241.57	2.733		
11,900.0	6,875.0	11,753.8	6,854.2	158.0	101.4	88.18	4,956.0	-1,539.6	660.1	413.7	246.46	2.679		
12,000.0	6,884.9	11,853.8	6,864.1	160.8	103.2	88.18	5,055.5	-1,539.6	660.2	408.8	251.34	2.627		
12,100.0	6,894.9	11,953.8	6,874.0	163.6	105.0	88.18	5,155.0	-1,539.6	660.2	403.9	256.23	2.576		
12,200.0	6,904.8	12,053.8	6,883.9	166.4	106.9	88.18	5,254.5	-1,539.6	660.2	399.0	261.12	2.528		
12,300.0	6,914.7	12,153.8	6,893.9	169.2	108.7	88.18	5,354.0	-1,539.6	660.2	394.2	266.01	2.482		
12,400.0	6,924.7	12,253.8	6,903.8	172.0	110.5	88.18	5,453.5	-1,539.6	660.2	389.3	270.90	2.437		
12,500.0	6,934.6	12,353.8	6,913.7	174.9	112.3	88.18	5,553.0	-1,539.6	660.2	384.4	275.80	2.394		
12,600.0	6,944.5	12,453.8	6,923.7	177.7	114.2	88.18	5,652.5	-1,539.6	660.2	379.5	280.69	2.352		
12,700.0	6,954.5	12,553.8	6,933.6	180.6	116.0	88.18	5,752.0	-1,539.6	660.2	374.6	285.59	2.312		
12,800.0	6,964.4	12,653.8	6,943.5	183.4	117.9	88.18	5,851.5	-1,539.6	660.2	369.7	290.49	2.273		
12,900.0	6,974.3	12,753.8	6,953.5	186.3	119.7	88.18	5,951.0	-1,539.5	660.2	364.8	295.39	2.235		
12,951.5	6,979.4	12,805.3	6,958.6	187.8	120.6	88.18	6,002.3	-1,539.5	660.2	362.3	297.92	2.216		
12,987.5	6,983.0	12,840.2	6,962.1	188.8	121.4	88.18	6,037.0	-1,539.5	660.2	360.5	299.66	2.203		
12,987.9	6,983.1	12,840.2	6,962.1	188.9	121.4	88.18	6,037.0	-1,539.5	660.2	360.5	299.67	2.203		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	24.61	27.2	12.5	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	24.61	27.2	12.5	30.0	29.8	0.19	158.698		
200.0	200.0	200.0	200.0	0.3	0.3	24.61	27.2	12.5	30.0	29.3	0.64	46.939		
300.0	300.0	300.0	300.0	0.5	0.5	24.61	27.2	12.5	30.0	28.9	1.09	27.543		
400.0	400.0	400.0	400.0	0.8	0.8	24.61	27.2	12.5	30.0	28.4	1.54	19.489		
500.0	500.0	500.0	500.0	1.0	1.0	24.61	27.2	12.5	30.0	28.0	1.99	15.080		
600.0	600.0	600.0	600.0	1.2	1.2	24.61	27.2	12.5	30.0	27.5	2.44	12.298		
700.0	700.0	700.0	700.0	1.4	1.4	24.61	27.2	12.5	30.0	27.1	2.89	10.382		
800.0	800.0	800.0	800.0	1.7	1.7	24.61	27.2	12.5	30.0	26.6	3.34	8.983		
900.0	900.0	900.0	900.0	1.9	1.9	24.61	27.2	12.5	30.0	26.2	3.79	7.916		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	24.61	27.2	12.5	30.0	25.7	4.23	7.076		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	24.61	27.2	12.5	30.0	25.3	4.68	6.397		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	24.61	27.2	12.5	30.0	24.8	5.13	5.837		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	24.61	27.2	12.5	30.0	24.4	5.58	5.367		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	24.61	27.2	12.5	30.0	23.9	6.03	4.967		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	24.61	27.2	12.5	30.0	23.5	6.48	4.622		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	24.61	27.2	12.5	30.0	23.0	6.93	4.323		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	24.61	27.2	12.5	30.0	22.6	7.38	4.059		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	24.61	27.2	12.5	30.0	22.1	7.83	3.826		
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	24.61	27.2	12.5	30.0	21.7	8.28	3.619		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	24.61	27.2	12.5	30.0	21.2	8.73	3.432		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	24.61	27.2	12.5	30.0	20.8	9.18	3.264		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	24.61	27.2	12.5	30.0	20.3	9.63	3.112		
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	24.61	27.2	12.5	30.0	19.9	10.08	2.973		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	24.61	27.2	12.5	30.0	19.4	10.53	2.846		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	24.61	27.2	12.5	30.0	19.0	10.98	2.729 CC, ES		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	117.56	27.2	12.5	30.7	19.3	11.41	2.692 SF		
2,700.0	2,699.8	2,699.8	2,699.8	5.9	5.9	125.47	27.2	12.5	33.5	21.6	11.84	2.828		
2,800.0	2,799.5	2,799.5	2,799.5	6.1	6.2	135.81	27.2	12.5	39.2	26.9	12.26	3.198		
2,900.0	2,898.7	2,898.7	2,898.7	6.4	6.4	145.72	27.2	12.5	48.7	36.0	12.66	3.846		
3,000.0	2,997.5	2,997.5	2,997.5	6.7	6.6	153.71	27.2	12.5	62.3	49.2	13.05	4.774		
3,100.0	3,095.6	3,095.6	3,095.6	7.0	6.8	159.65	27.2	12.5	79.9	66.5	13.42	5.952		
3,200.0	3,193.1	3,194.6	3,194.6	7.5	7.0	163.99	27.2	12.1	101.0	87.2	13.77	7.331		
3,300.0	3,289.6	3,296.0	3,295.9	8.0	7.2	167.16	26.6	8.8	122.9	108.8	14.10	8.714		
3,400.0	3,385.3	3,398.1	3,397.8	8.7	7.4	169.62	25.5	1.9	144.9	130.5	14.42	10.048		
3,500.0	3,479.8	3,501.1	3,500.2	9.4	7.7	171.63	23.7	-8.7	167.0	152.3	14.74	11.331		
3,600.0	3,573.2	3,604.9	3,603.0	10.3	7.9	173.36	21.3	-23.1	189.1	174.1	15.06	12.560		
3,700.0	3,665.2	3,709.6	3,706.1	11.3	8.1	174.91	18.3	-41.3	211.2	195.8	15.38	13.736		
3,800.0	3,755.8	3,815.2	3,809.3	12.5	8.4	176.32	14.6	-63.4	233.2	217.5	15.70	14.856		
3,871.4	3,819.6	3,891.1	3,882.9	13.4	8.6	177.27	11.6	-81.6	248.9	233.0	15.94	15.620		
3,900.0	3,845.0	3,921.7	3,912.4	13.8	8.7	177.64	10.3	-89.4	255.1	239.0	16.08	15.866		
4,000.0	3,933.8	4,023.0	4,009.8	15.1	9.1	178.80	5.6	-117.1	275.0	258.4	16.57	16.599		
4,100.0	4,022.5	4,120.9	4,103.8	16.5	9.5	179.77	1.2	-144.0	294.7	277.7	17.08	17.259		
4,200.0	4,111.3	4,218.8	4,197.8	18.0	9.8	-179.38	-3.3	-171.0	314.6	297.0	17.61	17.865		
4,300.0	4,200.0	4,316.7	4,291.8	19.4	10.2	-178.63	-7.8	-197.9	334.5	316.3	18.16	18.417		
4,400.0	4,288.8	4,414.6	4,385.8	20.9	10.7	-177.97	-12.3	-224.8	354.4	335.7	18.73	18.919		
4,500.0	4,377.6	4,512.6	4,479.9	22.4	11.1	-177.37	-16.8	-251.8	374.4	355.1	19.33	19.375		
4,600.0	4,466.3	4,610.5	4,573.9	23.8	11.5	-176.84	-21.3	-278.7	394.5	374.5	19.93	19.788		
4,700.0	4,555.1	4,708.4	4,667.9	25.3	12.0	-176.36	-25.8	-305.7	414.5	394.0	20.56	20.161		
4,800.0	4,643.8	4,806.3	4,761.9	26.8	12.5	-175.92	-30.3	-332.6	434.6	413.4	21.20	20.499		
4,900.0	4,732.6	4,904.2	4,856.0	28.4	13.0	-175.52	-34.8	-359.6	454.7	432.8	21.86	20.803		
5,000.0	4,821.4	5,002.1	4,950.0	29.9	13.5	-175.16	-39.3	-386.5	474.8	452.3	22.53	21.078		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
5,100.0	4,910.1	5,100.0	5,044.0	31.4	13.9	-174.82	-43.8	-413.5	495.0	471.7	23.21	21.326		
5,200.0	4,998.9	5,197.9	5,138.0	32.9	14.5	-174.51	-48.2	-440.4	515.1	491.2	23.90	21.550		
5,300.0	5,087.6	5,295.9	5,232.1	34.5	15.0	-174.23	-52.7	-467.4	535.3	510.7	24.61	21.752		
5,400.0	5,176.4	5,393.8	5,326.1	36.0	15.5	-173.96	-57.2	-494.3	555.5	530.1	25.32	21.935		
5,500.0	5,265.1	5,491.7	5,420.1	37.5	16.0	-173.72	-61.7	-521.3	575.7	549.6	26.05	22.100		
5,600.0	5,353.9	5,589.6	5,514.1	39.1	16.5	-173.49	-66.2	-548.2	595.8	569.1	26.78	22.249		
5,700.0	5,442.7	5,687.5	5,608.1	40.6	17.1	-173.27	-70.7	-575.2	616.1	588.5	27.52	22.383		
5,800.0	5,531.4	5,799.7	5,715.8	42.2	17.6	-173.32	-72.7	-606.4	635.7	607.4	28.23	22.520		
5,900.0	5,620.2	5,922.5	5,831.9	43.7	18.2	-174.97	-56.5	-642.5	651.9	623.4	28.48	22.891		
6,000.0	5,708.9	6,037.5	5,936.1	45.3	18.8	-178.01	-22.9	-677.5	665.4	636.9	28.54	23.319		
6,037.9	5,742.6	6,078.1	5,971.2	45.8	19.0	-179.40	-6.9	-689.9	670.3	641.7	28.63	23.412		
6,050.0	5,753.3	6,090.6	5,981.9	46.0	19.1	-179.86	-1.6	-693.7	672.0	643.4	28.61	23.493		
6,100.0	5,796.4	6,140.0	6,022.9	46.9	19.3	178.15	21.4	-708.8	681.3	652.7	28.57	23.847		
6,150.0	5,837.6	6,185.4	6,059.1	47.9	19.5	176.09	45.1	-722.5	694.5	665.8	28.69	24.207		
6,200.0	5,876.8	6,226.8	6,090.7	48.9	19.8	173.99	68.8	-734.8	711.8	682.8	28.99	24.555		
6,250.0	5,913.7	6,264.3	6,118.1	50.1	20.0	171.85	91.9	-745.9	733.1	703.6	29.52	24.837		
6,300.0	5,948.2	6,298.3	6,141.8	51.4	20.1	169.66	114.2	-755.8	758.4	728.1	30.30	25.034		
6,350.0	5,980.1	6,328.9	6,162.3	52.7	20.3	167.39	135.2	-764.6	787.5	756.1	31.37	25.101		
6,400.0	6,009.2	6,356.5	6,179.9	54.1	20.5	164.99	154.9	-772.3	820.1	787.2	32.81	24.995		
6,445.1	6,032.9	6,378.8	6,193.6	55.4	20.6	162.65	171.5	-778.5	852.1	817.6	34.49	24.709		
6,500.0	6,060.4	6,404.0	6,208.4	57.1	20.8	161.15	190.6	-785.4	893.0	856.6	36.39	24.540		
6,595.1	6,107.9	6,443.7	6,230.5	59.9	21.1	158.79	221.9	-795.9	965.4	925.7	39.73	24.302		
6,600.0	6,110.4	6,450.0	6,233.8	60.1	21.1	157.61	227.0	-797.6	969.3	928.6	40.67	23.834		
6,650.0	6,135.6	6,466.4	6,242.2	61.3	21.2	148.77	240.4	-801.8	1,007.4	960.2	47.15	21.364		
6,700.0	6,160.8	6,494.0	6,256.1	62.6	21.4	140.26	263.2	-808.9	1,044.3	991.0	53.34	19.578		
6,750.0	6,186.0	6,526.5	6,272.3	63.8	21.7	132.60	290.1	-817.2	1,079.7	1,021.3	58.43	18.478		
6,800.0	6,210.9	6,562.1	6,290.1	64.9	21.9	125.84	319.6	-826.2	1,113.0	1,050.7	62.27	17.875		
6,850.0	6,235.4	6,600.4	6,309.2	66.0	22.3	119.93	351.2	-836.0	1,144.0	1,079.0	64.92	17.620		
6,900.0	6,259.2	6,631.1	6,324.5	67.1	22.5	114.84	376.7	-843.8	1,172.4	1,106.0	66.37	17.664		
6,950.0	6,282.2	6,650.0	6,333.6	68.0	22.7	110.39	392.7	-848.4	1,198.5	1,131.8	66.76	17.954		
7,000.0	6,304.2	6,671.2	6,343.2	68.9	22.9	106.40	411.0	-853.1	1,222.5	1,156.0	66.43	18.403		
7,050.0	6,325.0	6,700.0	6,355.3	69.7	23.2	102.85	436.4	-859.0	1,244.1	1,178.6	65.53	18.985		
7,100.0	6,344.5	6,700.0	6,355.3	70.4	23.2	99.77	436.4	-859.0	1,263.3	1,199.7	63.64	19.850		
7,150.0	6,362.5	6,733.8	6,368.1	71.0	23.5	97.06	467.2	-865.0	1,279.7	1,218.0	61.70	20.740		
7,200.0	6,379.0	6,750.0	6,373.7	71.6	23.6	94.74	482.1	-867.5	1,293.8	1,234.6	59.11	21.887		
7,250.0	6,393.6	6,776.8	6,382.1	72.0	23.8	92.80	507.3	-871.1	1,305.0	1,248.7	56.35	23.160		
7,300.0	6,406.4	6,800.0	6,388.7	72.4	24.0	91.22	529.4	-873.7	1,313.6	1,260.3	53.36	24.618		
7,350.0	6,417.3	6,820.4	6,393.8	72.7	24.2	89.99	549.0	-875.7	1,319.5	1,269.2	50.31	26.225		
7,400.0	6,426.2	6,850.0	6,400.1	73.0	24.5	89.11	577.9	-877.8	1,322.6	1,275.1	47.56	27.808		
7,450.0	6,432.9	6,864.3	6,402.7	73.2	24.6	88.54	592.0	-878.5	1,322.9	1,277.8	45.03	29.379		
7,466.6	6,434.7	6,871.7	6,404.0	73.2	24.7	88.43	599.2	-878.8	1,322.3	1,278.0	44.35	29.813		
7,500.0	6,438.0	6,900.0	6,407.9	73.3	24.9	88.48	627.2	-879.6	1,321.4	1,276.0	45.36	29.134		
7,571.7	6,445.1	6,923.4	6,410.4	73.6	25.1	88.49	650.5	-879.7	1,320.4	1,273.4	46.97	28.112		
7,600.0	6,447.9	6,951.7	6,413.2	73.7	25.4	88.49	678.7	-879.7	1,320.4	1,272.6	47.85	27.593		
7,700.0	6,457.9	7,051.7	6,423.2	74.2	26.4	88.49	778.2	-879.7	1,320.4	1,269.2	51.21	25.787		
7,800.0	6,467.8	7,151.7	6,433.1	74.8	27.5	88.49	877.7	-879.7	1,320.4	1,265.6	54.78	24.102		
7,900.0	6,477.7	7,251.7	6,443.0	75.4	28.7	88.49	977.2	-879.7	1,320.4	1,261.8	58.56	22.547		
8,000.0	6,487.7	7,351.7	6,453.0	76.1	30.0	88.49	1,076.7	-879.7	1,320.4	1,257.9	62.50	21.126		
8,100.0	6,497.6	7,451.7	6,462.9	76.9	31.4	88.49	1,176.2	-879.7	1,320.4	1,253.8	66.58	19.832		
8,200.0	6,507.5	7,551.7	6,472.8	77.7	32.8	88.49	1,275.7	-879.7	1,320.4	1,249.6	70.76	18.659		
8,300.0	6,517.5	7,651.7	6,482.8	78.7	34.2	88.49	1,375.2	-879.7	1,320.4	1,245.3	75.04	17.595		
8,400.0	6,527.4	7,751.7	6,492.7	79.7	35.7	88.49	1,474.7	-879.7	1,320.4	1,241.0	79.40	16.630		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
8,500.0	6,537.3	7,851.7	6,502.6	80.9	37.3	88.49	1,574.2	-879.7	1,320.4	1,236.6	83.82	15.753		
8,600.0	6,547.2	7,951.7	6,512.5	82.1	38.9	88.49	1,673.7	-879.7	1,320.4	1,232.1	88.30	14.954		
8,700.0	6,557.2	8,051.7	6,522.5	83.4	40.5	88.49	1,773.2	-879.7	1,320.4	1,227.5	92.82	14.225		
8,800.0	6,567.1	8,151.7	6,532.4	84.9	42.1	88.49	1,872.8	-879.7	1,320.4	1,223.0	97.38	13.558		
8,900.0	6,577.0	8,251.7	6,542.3	86.4	43.8	88.49	1,972.3	-879.7	1,320.4	1,218.4	101.98	12.947		
9,000.0	6,587.0	8,351.7	6,552.3	88.0	45.5	88.49	2,071.8	-879.7	1,320.3	1,213.7	106.62	12.384		
9,100.0	6,596.9	8,451.7	6,562.2	89.7	47.2	88.49	2,171.3	-879.7	1,320.3	1,209.1	111.27	11.866		
9,200.0	6,606.8	8,551.7	6,572.1	91.5	48.9	88.49	2,270.8	-879.7	1,320.3	1,204.4	115.95	11.387		
9,300.0	6,616.8	8,651.7	6,582.1	93.3	50.6	88.49	2,370.3	-879.7	1,320.3	1,199.7	120.66	10.943		
9,400.0	6,626.7	8,751.7	6,592.0	95.3	52.4	88.49	2,469.8	-879.7	1,320.3	1,195.0	125.38	10.531		
9,500.0	6,636.6	8,851.7	6,601.9	97.3	54.1	88.49	2,569.3	-879.7	1,320.3	1,190.2	130.11	10.147		
9,600.0	6,646.6	8,951.7	6,611.9	99.4	55.9	88.49	2,668.8	-879.7	1,320.3	1,185.5	134.87	9.790		
9,700.0	6,656.5	9,051.7	6,621.8	101.5	57.7	88.49	2,768.3	-879.7	1,320.3	1,180.7	139.63	9.456		
9,800.0	6,666.4	9,151.7	6,631.7	103.7	59.5	88.49	2,867.8	-879.7	1,320.3	1,175.9	144.41	9.143		
9,900.0	6,676.4	9,251.7	6,641.7	106.0	61.3	88.49	2,967.3	-879.7	1,320.3	1,171.1	149.20	8.849		
10,000.0	6,686.3	9,351.7	6,651.6	108.3	63.1	88.49	3,066.8	-879.7	1,320.3	1,166.3	154.00	8.574		
10,100.0	6,696.2	9,451.7	6,661.5	110.6	64.9	88.49	3,166.3	-879.7	1,320.3	1,161.5	158.80	8.314		
10,200.0	6,706.2	9,551.7	6,671.5	113.0	66.7	88.49	3,265.8	-879.7	1,320.3	1,156.7	163.62	8.069		
10,300.0	6,716.1	9,651.7	6,681.4	115.5	68.5	88.49	3,365.3	-879.7	1,320.3	1,151.8	168.44	7.838		
10,400.0	6,726.0	9,751.7	6,691.3	117.9	70.3	88.49	3,464.8	-879.7	1,320.3	1,147.0	173.27	7.620		
10,500.0	6,736.0	9,851.7	6,701.3	120.5	72.2	88.49	3,564.3	-879.7	1,320.3	1,142.2	178.10	7.413		
10,600.0	6,745.9	9,951.7	6,711.2	123.0	74.0	88.49	3,663.9	-879.7	1,320.3	1,137.3	182.95	7.217		
10,700.0	6,755.8	10,051.7	6,721.1	125.6	75.8	88.49	3,763.4	-879.7	1,320.3	1,132.5	187.79	7.030		
10,800.0	6,765.8	10,151.7	6,731.1	128.2	77.7	88.49	3,862.9	-879.7	1,320.3	1,127.6	192.64	6.853		
10,900.0	6,775.7	10,251.7	6,741.0	130.8	79.5	88.49	3,962.4	-879.7	1,320.3	1,122.8	197.50	6.685		
11,000.0	6,785.6	10,351.7	6,750.9	133.4	81.4	88.49	4,061.9	-879.7	1,320.3	1,117.9	202.36	6.524		
11,100.0	6,795.5	10,451.7	6,760.8	136.1	83.3	88.49	4,161.4	-879.7	1,320.2	1,113.0	207.22	6.371		
11,200.0	6,805.5	10,551.7	6,770.8	138.8	85.1	88.49	4,260.9	-879.7	1,320.2	1,108.2	212.09	6.225		
11,300.0	6,815.4	10,651.7	6,780.7	141.5	87.0	88.49	4,360.4	-879.7	1,320.2	1,103.3	216.96	6.085		
11,400.0	6,825.3	10,751.7	6,790.6	144.2	88.8	88.49	4,459.9	-879.7	1,320.2	1,098.4	221.84	5.951		
11,500.0	6,835.3	10,851.7	6,800.6	146.9	90.7	88.49	4,559.4	-879.7	1,320.2	1,093.5	226.72	5.823		
11,600.0	6,845.2	10,951.7	6,810.5	149.7	92.6	88.49	4,658.9	-879.7	1,320.2	1,088.6	231.60	5.701		
11,700.0	6,855.1	11,051.7	6,820.4	152.4	94.4	88.49	4,758.4	-879.7	1,320.2	1,083.7	236.48	5.583		
11,800.0	6,865.1	11,151.7	6,830.4	155.2	96.3	88.49	4,857.9	-879.7	1,320.2	1,078.9	241.36	5.470		
11,900.0	6,875.0	11,251.7	6,840.3	158.0	98.2	88.49	4,957.4	-879.7	1,320.2	1,074.0	246.25	5.361		
12,000.0	6,884.9	11,351.7	6,850.2	160.8	100.1	88.49	5,056.9	-879.7	1,320.2	1,069.1	251.14	5.257		
12,100.0	6,894.9	11,451.7	6,860.2	163.6	101.9	88.49	5,156.4	-879.7	1,320.2	1,064.2	256.03	5.156		
12,200.0	6,904.8	11,551.7	6,870.1	166.4	103.8	88.49	5,255.9	-879.7	1,320.2	1,059.3	260.93	5.060		
12,300.0	6,914.7	11,651.7	6,880.0	169.2	105.7	88.49	5,355.4	-879.7	1,320.2	1,054.4	265.82	4.966		
12,400.0	6,924.7	11,751.7	6,890.0	172.0	107.6	88.49	5,455.0	-879.7	1,320.2	1,049.5	270.72	4.877		
12,500.0	6,934.6	11,851.7	6,899.9	174.9	109.5	88.49	5,554.5	-879.7	1,320.2	1,044.6	275.62	4.790		
12,600.0	6,944.5	11,951.7	6,909.8	177.7	111.3	88.49	5,654.0	-879.7	1,320.2	1,039.7	280.52	4.706		
12,700.0	6,954.5	12,051.7	6,919.8	180.6	113.2	88.49	5,753.5	-879.7	1,320.2	1,034.8	285.42	4.625		
12,800.0	6,964.4	12,151.7	6,929.7	183.4	115.1	88.49	5,853.0	-879.7	1,320.2	1,029.8	290.32	4.547		
12,900.0	6,974.3	12,251.7	6,939.6	186.3	117.0	88.49	5,952.5	-879.7	1,320.2	1,024.9	295.23	4.472		
12,963.6	6,980.6	12,315.4	6,945.9	188.1	118.2	88.49	6,015.8	-879.7	1,320.2	1,021.9	298.29	4.426		
12,987.5	6,983.0	12,336.7	6,948.1	188.8	118.5	88.49	6,037.1	-879.7	1,320.2	1,020.8	299.34	4.410		
12,987.9	6,983.1	12,336.7	6,948.1	188.9	118.5	88.49	6,037.1	-879.7	1,320.2	1,020.8	299.35	4.410		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	24.48	40.9	18.6	45.0					
100.0	100.0	100.0	100.0	0.1	0.1	24.48	40.9	18.6	45.0	44.8	0.19	238.256		
200.0	200.0	200.0	200.0	0.3	0.3	24.48	40.9	18.6	45.0	44.3	0.64	70.470		
300.0	300.0	300.0	300.0	0.5	0.5	24.48	40.9	18.6	45.0	43.9	1.09	41.350		
400.0	400.0	400.0	400.0	0.8	0.8	24.48	40.9	18.6	45.0	43.4	1.54	29.260		
500.0	500.0	500.0	500.0	1.0	1.0	24.48	40.9	18.6	45.0	43.0	1.99	22.640		
600.0	600.0	600.0	600.0	1.2	1.2	24.48	40.9	18.6	45.0	42.5	2.44	18.463		
700.0	700.0	700.0	700.0	1.4	1.4	24.48	40.9	18.6	45.0	42.1	2.89	15.587		
800.0	800.0	800.0	800.0	1.7	1.7	24.48	40.9	18.6	45.0	41.6	3.34	13.486		
900.0	900.0	900.0	900.0	1.9	1.9	24.48	40.9	18.6	45.0	41.2	3.79	11.885		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	24.48	40.9	18.6	45.0	40.7	4.23	10.623		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	24.48	40.9	18.6	45.0	40.3	4.68	9.603		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	24.48	40.9	18.6	45.0	39.9	5.13	8.763		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	24.48	40.9	18.6	45.0	39.4	5.58	8.057		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	24.48	40.9	18.6	45.0	39.0	6.03	7.457		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	24.48	40.9	18.6	45.0	38.5	6.48	6.940		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	24.48	40.9	18.6	45.0	38.1	6.93	6.489		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	24.48	40.9	18.6	45.0	37.6	7.38	6.094		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	24.48	40.9	18.6	45.0	37.2	7.83	5.744		
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	24.48	40.9	18.6	45.0	36.7	8.28	5.433		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	24.48	40.9	18.6	45.0	36.3	8.73	5.153		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	24.48	40.9	18.6	45.0	35.8	9.18	4.900		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	24.48	40.9	18.6	45.0	35.4	9.63	4.672		
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	24.48	40.9	18.6	45.0	34.9	10.08	4.463		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	24.48	40.9	18.6	45.0	34.5	10.53	4.273		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	24.48	40.9	18.6	45.0	34.0	10.98	4.098 CC, ES		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	116.46	40.9	18.6	45.7	34.3	11.41	4.007 SF		
2,700.0	2,699.8	2,699.8	2,699.8	5.9	5.9	121.97	40.9	18.6	48.3	36.5	11.84	4.079		
2,800.0	2,799.5	2,799.5	2,799.5	6.1	6.2	129.83	40.9	18.6	53.4	41.2	12.26	4.357		
2,900.0	2,898.7	2,898.7	2,898.7	6.4	6.4	138.37	40.9	18.6	62.0	49.3	12.68	4.887		
3,000.0	2,997.5	2,997.5	2,997.5	6.7	6.6	146.23	40.9	18.6	74.4	61.4	13.08	5.690		
3,100.0	3,095.6	3,095.6	3,095.6	7.0	6.8	152.74	40.9	18.6	91.0	77.5	13.46	6.757		
3,200.0	3,193.1	3,193.1	3,193.1	7.5	7.0	157.87	40.9	18.6	111.5	97.7	13.83	8.063		
3,300.0	3,289.6	3,289.6	3,289.6	8.0	7.3	161.81	40.9	18.6	135.9	121.7	14.19	9.582		
3,400.0	3,385.3	3,385.3	3,385.3	8.7	7.5	164.84	40.9	18.6	164.0	149.5	14.53	11.289		
3,500.0	3,479.8	3,485.0	3,485.0	9.4	7.7	167.47	40.2	17.6	194.7	179.8	14.85	13.107		
3,600.0	3,573.2	3,586.3	3,586.1	10.3	7.9	169.99	37.2	13.8	225.9	210.8	15.14	14.923		
3,700.0	3,665.2	3,688.1	3,687.6	11.3	8.1	172.44	32.1	7.2	257.8	242.4	15.41	16.727		
3,800.0	3,755.8	3,786.9	3,785.8	12.5	8.3	174.71	25.2	-1.9	290.7	275.0	15.69	18.534		
3,871.4	3,819.6	3,853.3	3,851.7	13.4	8.4	176.05	20.2	-8.3	316.0	300.2	15.88	19.897		
3,900.0	3,845.0	3,879.8	3,878.0	13.8	8.4	176.55	18.3	-10.8	326.5	310.5	16.01	20.401		
4,000.0	3,933.8	3,972.4	3,969.8	15.1	8.6	178.07	11.4	-19.8	363.5	347.0	16.45	22.093		
4,100.0	4,022.5	4,064.9	4,061.7	16.5	8.8	179.31	4.5	-28.7	400.5	383.6	16.92	23.674		
4,200.0	4,111.3	4,157.5	4,153.6	18.0	9.0	-179.66	-2.4	-37.7	437.8	420.4	17.41	25.151		
4,300.0	4,200.0	4,250.0	4,245.4	19.4	9.3	-178.79	-9.3	-46.6	475.1	457.2	17.91	26.521		
4,400.0	4,288.8	4,342.6	4,337.3	20.9	9.5	-178.05	-16.2	-55.6	512.5	494.0	18.44	27.793		
4,500.0	4,377.6	4,435.1	4,429.1	22.4	9.7	-177.41	-23.0	-64.5	550.0	531.0	18.98	28.972		
4,600.0	4,466.3	4,527.7	4,521.0	23.8	9.9	-176.85	-29.9	-73.5	587.5	567.9	19.54	30.065		
4,700.0	4,555.1	4,620.2	4,612.8	25.3	10.1	-176.36	-36.8	-82.4	625.0	604.9	20.11	31.078		
4,800.0	4,643.8	4,712.8	4,704.7	26.8	10.4	-175.92	-43.7	-91.4	662.6	641.9	20.70	32.016		
4,900.0	4,732.6	4,805.3	4,796.6	28.4	10.6	-175.53	-50.6	-100.3	700.3	679.0	21.29	32.885		
5,000.0	4,821.4	4,897.9	4,888.4	29.9	10.8	-175.18	-57.5	-109.3	737.9	716.0	21.90	33.692		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	4,910.1	4,990.4	4,980.3	31.4	11.1	-174.86	-64.4	-118.2	775.6	753.1	22.52	34.440		
5,200.0	4,998.9	5,083.0	5,072.1	32.9	11.3	-174.57	-71.2	-127.2	813.3	790.1	23.15	35.135		
5,300.0	5,087.6	5,175.5	5,164.0	34.5	11.6	-174.31	-78.1	-136.1	851.0	827.2	23.78	35.782		
5,400.0	5,176.4	5,268.1	5,255.9	36.0	11.8	-174.07	-85.0	-145.1	888.7	864.3	24.43	36.384		
5,500.0	5,265.1	5,360.6	5,347.7	37.5	12.1	-173.85	-91.9	-154.0	926.5	901.4	25.08	36.945		
5,600.0	5,353.9	5,453.2	5,439.6	39.1	12.3	-173.65	-98.8	-163.0	964.2	938.5	25.73	37.468		
5,700.0	5,442.7	5,545.7	5,531.4	40.6	12.6	-173.46	-105.7	-171.9	1,002.0	975.6	26.40	37.957		
5,800.0	5,531.4	5,642.3	5,627.3	42.2	12.9	-173.39	-111.0	-181.2	1,039.6	1,012.6	27.04	38.444		
5,900.0	5,620.2	5,741.8	5,726.2	43.7	13.1	-174.01	-104.5	-190.1	1,076.7	1,049.3	27.49	39.174		
6,000.0	5,708.9	5,837.2	5,819.2	45.3	13.3	-175.27	-85.4	-197.7	1,113.6	1,085.8	27.75	40.136		
6,037.9	5,742.6	5,871.6	5,852.1	45.8	13.3	-175.87	-75.5	-200.3	1,127.6	1,099.8	27.82	40.533		
6,050.0	5,753.3	5,882.3	5,862.3	46.0	13.3	-176.04	-72.1	-201.0	1,132.2	1,104.4	27.77	40.767		
6,100.0	5,796.4	5,924.5	5,901.6	46.9	13.4	-176.80	-57.2	-203.9	1,153.3	1,125.7	27.54	41.884		
6,150.0	5,837.6	5,963.1	5,936.9	47.9	13.4	-177.63	-41.6	-206.3	1,177.8	1,150.5	27.25	43.228		
6,200.0	5,876.8	5,998.2	5,968.1	48.9	13.5	-178.49	-25.8	-208.4	1,205.6	1,178.6	26.91	44.792		
6,250.0	5,913.7	6,029.7	5,995.4	50.1	13.5	-179.37	-10.2	-210.1	1,236.6	1,210.0	26.56	46.564		
6,300.0	5,948.2	6,057.8	6,019.3	51.4	13.6	179.71	4.6	-211.6	1,270.6	1,244.4	26.18	48.529		
6,350.0	5,980.1	6,082.6	6,039.8	52.7	13.6	178.75	18.5	-212.7	1,307.4	1,281.6	25.81	50.656		
6,400.0	6,009.2	6,104.4	6,057.4	54.1	13.6	177.72	31.2	-213.7	1,346.8	1,321.4	25.46	52.892		
6,445.1	6,032.9	6,121.5	6,071.0	55.4	13.6	176.71	41.6	-214.4	1,384.3	1,359.1	25.21	54.913		
6,500.0	6,060.4	6,140.5	6,085.8	57.1	13.7	175.85	53.5	-215.1	1,431.3	1,405.5	25.71	55.670		
6,595.1	6,107.9	6,171.3	6,109.1	59.9	13.7	174.44	73.6	-216.2	1,513.1	1,486.4	26.70	56.673		
6,600.0	6,110.4	6,172.8	6,110.2	60.1	13.7	173.26	74.7	-216.3	1,517.3	1,490.3	27.07	56.054		
6,650.0	6,135.6	6,189.3	6,122.3	61.3	13.7	161.59	85.9	-216.8	1,560.4	1,527.6	32.74	47.665		
6,700.0	6,160.8	6,207.5	6,135.3	62.6	13.8	150.84	98.5	-217.3	1,602.8	1,563.2	39.56	40.520		
6,750.0	6,186.0	6,227.2	6,149.1	63.8	13.8	141.22	112.6	-217.8	1,644.3	1,598.6	45.72	35.964		
6,800.0	6,210.9	6,250.0	6,164.5	64.9	13.8	132.75	129.4	-218.4	1,684.5	1,633.8	50.66	33.251		
6,850.0	6,235.4	6,271.1	6,178.3	66.0	13.9	125.37	145.4	-218.8	1,723.1	1,668.9	54.21	31.784		
6,900.0	6,259.2	6,300.0	6,196.4	67.1	14.0	118.92	167.9	-219.3	1,760.0	1,703.4	56.57	31.109		
6,950.0	6,282.2	6,320.8	6,208.9	68.0	14.0	113.33	184.5	-219.6	1,794.7	1,736.8	57.81	31.043		
7,000.0	6,304.2	6,350.0	6,225.6	68.9	14.2	108.46	208.5	-219.8	1,827.1	1,768.9	58.17	31.408		
7,050.0	6,325.0	6,375.8	6,239.5	69.7	14.3	104.23	230.2	-220.0	1,857.0	1,799.2	57.75	32.157		
7,100.0	6,344.5	6,408.8	6,256.3	70.4	14.5	100.59	258.6	-220.0	1,884.1	1,827.4	56.71	33.223		
7,150.0	6,362.5	6,452.3	6,278.0	71.0	14.8	97.56	296.3	-220.0	1,908.2	1,853.0	55.20	34.567		
7,200.0	6,379.0	6,497.0	6,300.4	71.6	15.1	95.08	335.1	-220.0	1,929.0	1,875.7	53.28	36.206		
7,250.0	6,393.6	6,542.8	6,323.2	72.0	15.5	93.10	374.7	-220.0	1,946.3	1,895.2	51.10	38.088		
7,300.0	6,406.4	6,584.5	6,343.0	72.4	15.8	91.51	411.4	-220.0	1,960.1	1,911.3	48.77	40.186		
7,350.0	6,417.3	6,627.5	6,360.5	72.7	16.2	90.28	450.7	-220.0	1,970.3	1,923.8	46.50	42.375		
7,400.0	6,426.2	6,671.9	6,375.5	73.0	16.7	89.39	492.5	-220.0	1,977.0	1,932.5	44.45	44.475		
7,450.0	6,432.9	6,717.4	6,387.4	73.2	17.2	88.82	536.4	-220.0	1,980.0	1,937.1	42.85	46.208		
7,466.6	6,434.7	6,732.7	6,390.6	73.2	17.4	88.71	551.3	-220.0	1,980.1	1,937.7	42.45	46.642		
7,500.0	6,438.0	6,763.7	6,395.9	73.3	17.7	88.77	581.8	-220.0	1,980.1	1,936.6	43.47	45.555		
7,547.4	6,442.7	6,809.2	6,401.0	73.5	18.3	88.79	627.0	-220.0	1,980.1	1,935.2	44.90	44.101		
7,600.0	6,447.9	6,861.7	6,406.2	73.7	19.0	88.79	679.3	-220.0	1,980.1	1,933.5	46.55	42.538		
7,700.0	6,457.9	6,961.7	6,416.2	74.2	20.3	88.79	778.8	-220.0	1,980.1	1,930.1	49.94	39.649		
7,800.0	6,467.8	7,061.7	6,426.1	74.8	21.8	88.79	878.3	-220.0	1,980.1	1,926.5	53.57	36.960		
7,900.0	6,477.7	7,161.7	6,436.0	75.4	23.3	88.79	977.8	-220.0	1,980.1	1,922.7	57.40	34.493		
8,000.0	6,487.7	7,261.7	6,446.0	76.1	24.9	88.79	1,077.3	-220.0	1,980.1	1,918.7	61.40	32.251		
8,100.0	6,497.6	7,361.7	6,455.9	76.9	26.5	88.79	1,176.9	-220.0	1,980.1	1,914.5	65.52	30.223		
8,200.0	6,507.5	7,461.7	6,465.8	77.7	28.1	88.79	1,276.4	-220.0	1,980.1	1,910.3	69.74	28.390		
8,300.0	6,517.5	7,561.7	6,475.8	78.7	29.8	88.79	1,375.9	-220.0	1,980.1	1,906.0	74.06	26.736		
8,400.0	6,527.4	7,661.7	6,485.7	79.7	31.5	88.79	1,475.4	-220.0	1,980.1	1,901.6	78.45	25.239		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
8,500.0	6,537.3	7,761.7	6,495.6	80.9	33.3	88.79	1,574.9	-220.0	1,980.1	1,897.2	82.91	23.883		
8,600.0	6,547.2	7,861.7	6,505.6	82.1	35.0	88.79	1,674.4	-220.0	1,980.1	1,892.6	87.41	22.652		
8,700.0	6,557.2	7,961.7	6,515.5	83.4	36.8	88.79	1,773.9	-220.0	1,980.1	1,888.1	91.96	21.531		
8,800.0	6,567.1	8,061.7	6,525.4	84.9	38.6	88.79	1,873.4	-220.0	1,980.1	1,883.5	96.55	20.507		
8,900.0	6,577.0	8,161.7	6,535.4	86.4	40.4	88.79	1,972.9	-219.9	1,980.1	1,878.9	101.18	19.570		
9,000.0	6,587.0	8,261.7	6,545.3	88.0	42.2	88.79	2,072.4	-219.9	1,980.1	1,874.2	105.83	18.710		
9,100.0	6,596.9	8,361.7	6,555.2	89.7	44.0	88.79	2,171.9	-219.9	1,980.1	1,869.5	110.51	17.918		
9,200.0	6,606.8	8,461.7	6,565.2	91.5	45.8	88.79	2,271.4	-219.9	1,980.0	1,864.8	115.21	17.187		
9,300.0	6,616.8	8,561.7	6,575.1	93.3	47.7	88.79	2,370.9	-219.9	1,980.0	1,860.1	119.93	16.510		
9,400.0	6,626.7	8,661.7	6,585.0	95.3	49.5	88.79	2,470.4	-219.9	1,980.0	1,855.4	124.67	15.883		
9,500.0	6,636.6	8,761.7	6,595.0	97.3	51.3	88.79	2,569.9	-219.9	1,980.0	1,850.6	129.42	15.300		
9,600.0	6,646.6	8,861.7	6,604.9	99.4	53.2	88.79	2,669.4	-219.9	1,980.0	1,845.9	134.18	14.756		
9,700.0	6,656.5	8,961.7	6,614.8	101.5	55.1	88.79	2,768.9	-219.9	1,980.0	1,841.1	138.96	14.249		
9,800.0	6,666.4	9,061.7	6,624.7	103.7	56.9	88.79	2,868.4	-219.9	1,980.0	1,836.3	143.75	13.774		
9,900.0	6,676.4	9,161.7	6,634.7	106.0	58.8	88.79	2,968.0	-219.9	1,980.0	1,831.5	148.55	13.329		
10,000.0	6,686.3	9,261.7	6,644.6	108.3	60.7	88.79	3,067.5	-219.9	1,980.0	1,826.7	153.36	12.911		
10,100.0	6,696.2	9,361.7	6,654.5	110.6	62.5	88.79	3,167.0	-219.9	1,980.0	1,821.9	158.18	12.518		
10,200.0	6,706.2	9,461.7	6,664.5	113.0	64.4	88.79	3,266.5	-219.9	1,980.0	1,817.0	163.01	12.147		
10,300.0	6,716.1	9,561.7	6,674.4	115.5	66.3	88.79	3,366.0	-219.9	1,980.0	1,812.2	167.84	11.797		
10,400.0	6,726.0	9,661.7	6,684.3	117.9	68.2	88.79	3,465.5	-219.9	1,980.0	1,807.4	172.68	11.467		
10,500.0	6,736.0	9,761.7	6,694.3	120.5	70.0	88.79	3,565.0	-219.9	1,980.0	1,802.5	177.52	11.154		
10,600.0	6,745.9	9,861.7	6,704.2	123.0	71.9	88.79	3,664.5	-219.9	1,980.0	1,797.7	182.37	10.857		
10,700.0	6,755.8	9,961.7	6,714.1	125.6	73.8	88.79	3,764.0	-219.9	1,980.0	1,792.8	187.22	10.576		
10,800.0	6,765.8	10,061.7	6,724.1	128.2	75.7	88.79	3,863.5	-219.9	1,980.0	1,787.9	192.08	10.308		
10,900.0	6,775.7	10,161.7	6,734.0	130.8	77.6	88.79	3,963.0	-219.9	1,980.0	1,783.1	196.95	10.054		
11,000.0	6,785.6	10,261.7	6,743.9	133.4	79.5	88.79	4,062.5	-219.9	1,980.0	1,778.2	201.81	9.811		
11,100.0	6,795.5	10,361.7	6,753.9	136.1	81.4	88.79	4,162.0	-219.9	1,980.0	1,773.3	206.69	9.580		
11,200.0	6,805.5	10,461.7	6,763.8	138.8	83.3	88.79	4,261.5	-219.9	1,980.0	1,768.5	211.56	9.359		
11,300.0	6,815.4	10,561.7	6,773.7	141.5	85.2	88.79	4,361.0	-219.9	1,980.0	1,763.6	216.44	9.148		
11,400.0	6,825.3	10,661.7	6,783.7	144.2	87.0	88.79	4,460.5	-219.9	1,980.0	1,758.7	221.32	8.947		
11,500.0	6,835.3	10,761.7	6,793.6	146.9	88.9	88.79	4,560.0	-219.9	1,980.0	1,753.8	226.20	8.753		
11,600.0	6,845.2	10,861.7	6,803.5	149.7	90.8	88.79	4,659.5	-219.9	1,980.0	1,748.9	231.09	8.568		
11,700.0	6,855.1	10,961.7	6,813.5	152.4	92.7	88.79	4,759.1	-219.9	1,980.0	1,744.0	235.97	8.391		
11,800.0	6,865.1	11,061.7	6,823.4	155.2	94.6	88.79	4,858.6	-219.9	1,980.0	1,739.1	240.86	8.220		
11,900.0	6,875.0	11,161.7	6,833.3	158.0	96.5	88.79	4,958.1	-219.9	1,980.0	1,734.3	245.76	8.057		
12,000.0	6,884.9	11,261.7	6,843.3	160.8	98.4	88.79	5,057.6	-219.9	1,980.0	1,729.4	250.65	7.899		
12,100.0	6,894.9	11,361.7	6,853.2	163.6	100.3	88.79	5,157.1	-219.9	1,980.0	1,724.5	255.55	7.748		
12,200.0	6,904.8	11,461.7	6,863.1	166.4	102.2	88.79	5,256.6	-219.9	1,980.0	1,719.6	260.45	7.602		
12,300.0	6,914.7	11,561.7	6,873.0	169.2	104.2	88.79	5,356.1	-219.9	1,980.0	1,714.7	265.35	7.462		
12,400.0	6,924.7	11,661.7	6,883.0	172.0	106.1	88.79	5,455.6	-219.9	1,980.0	1,709.8	270.25	7.327		
12,500.0	6,934.6	11,761.7	6,892.9	174.9	108.0	88.79	5,555.1	-219.9	1,980.0	1,704.8	275.15	7.196		
12,600.0	6,944.5	11,861.7	6,902.8	177.7	109.9	88.79	5,654.6	-219.9	1,980.0	1,699.9	280.06	7.070		
12,700.0	6,954.5	11,961.7	6,912.8	180.6	111.8	88.79	5,754.1	-219.8	1,980.0	1,695.0	284.96	6.948		
12,800.0	6,964.4	12,061.7	6,922.7	183.4	113.7	88.79	5,853.6	-219.8	1,980.0	1,690.1	289.87	6.831		
12,900.0	6,974.3	12,161.7	6,932.6	186.3	115.6	88.79	5,953.1	-219.8	1,980.0	1,685.2	294.78	6.717		
12,962.7	6,980.6	12,224.4	6,938.9	188.1	116.7	88.79	6,015.5	-219.8	1,980.0	1,682.2	297.76	6.650		
12,987.5	6,983.0	12,246.1	6,941.0	188.8	117.0	88.79	6,037.1	-219.8	1,980.0	1,681.2	298.84	6.626		
12,987.9	6,983.1	12,246.1	6,941.0	188.9	117.0	88.79	6,037.1	-219.8	1,980.0	1,681.1	298.85	6.625		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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 5-6H - 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	1.2	1.2	0.0	0.0	24.60	95.5	43.7	105.0					
100.0	100.0	101.2	101.2	0.1	0.1	24.60	95.5	43.7	105.0	104.8	0.19	548.281		
200.0	200.0	201.2	201.2	0.3	0.3	24.60	95.5	43.7	105.0	104.4	0.64	163.792		
300.0	300.0	301.2	301.2	0.5	0.5	24.60	95.5	43.7	105.0	103.9	1.09	96.277		
400.0	400.0	401.2	401.2	0.8	0.8	24.60	95.5	43.7	105.0	103.5	1.54	68.175		
500.0	500.0	501.2	501.2	1.0	1.0	24.60	95.5	43.7	105.0	103.0	1.99	52.772		
600.0	600.0	601.2	601.2	1.2	1.2	24.60	95.5	43.7	105.0	102.6	2.44	43.046		
700.0	700.0	701.2	701.2	1.4	1.4	24.60	95.5	43.7	105.0	102.1	2.89	36.347		
800.0	800.0	801.2	801.2	1.7	1.7	24.60	95.5	43.7	105.0	101.7	3.34	31.453		
900.0	900.0	901.2	901.2	1.9	1.9	24.60	95.5	43.7	105.0	101.2	3.79	27.720		
1,000.0	1,000.0	1,001.2	1,001.2	2.1	2.1	24.60	95.5	43.7	105.0	100.8	4.24	24.779		
1,100.0	1,100.0	1,101.2	1,101.2	2.3	2.3	24.60	95.5	43.7	105.0	100.3	4.69	22.402		
1,200.0	1,200.0	1,201.2	1,201.2	2.6	2.6	24.60	95.5	43.7	105.0	99.9	5.14	20.442		
1,300.0	1,300.0	1,301.2	1,301.2	2.8	2.8	24.60	95.5	43.7	105.0	99.4	5.59	18.797		
1,400.0	1,400.0	1,401.2	1,401.2	3.0	3.0	24.60	95.5	43.7	105.0	99.0	6.04	17.397		
1,500.0	1,500.0	1,501.2	1,501.2	3.2	3.2	24.60	95.5	43.7	105.0	98.5	6.48	16.191		
1,600.0	1,600.0	1,601.2	1,601.2	3.5	3.5	24.60	95.5	43.7	105.0	98.1	6.93	15.141		
1,700.0	1,700.0	1,701.2	1,701.2	3.7	3.7	24.60	95.5	43.7	105.0	97.6	7.38	14.219		
1,800.0	1,800.0	1,801.2	1,801.2	3.9	3.9	24.60	95.5	43.7	105.0	97.2	7.83	13.403		
1,900.0	1,900.0	1,901.2	1,901.2	4.1	4.1	24.60	95.5	43.7	105.0	96.7	8.28	12.676		
2,000.0	2,000.0	2,001.2	2,001.2	4.4	4.4	24.60	95.5	43.7	105.0	96.3	8.73	12.023		
2,100.0	2,100.0	2,101.2	2,101.2	4.6	4.6	24.60	95.5	43.7	105.0	95.8	9.18	11.435		
2,200.0	2,200.0	2,201.2	2,201.2	4.8	4.8	24.60	95.5	43.7	105.0	95.4	9.63	10.901		
2,300.0	2,300.0	2,301.2	2,301.2	5.0	5.0	24.60	95.5	43.7	105.0	94.9	10.08	10.415		
2,400.0	2,400.0	2,401.2	2,401.2	5.3	5.3	24.60	95.5	43.7	105.0	94.5	10.53	9.970		
2,500.0	2,500.0	2,501.2	2,501.2	5.5	5.5	24.60	95.5	43.7	105.0	94.0	10.98	9.562 CC, ES		
2,600.0	2,600.0	2,601.2	2,601.2	5.7	5.7	115.44	95.5	43.7	105.7	94.3	11.42	9.261		
2,700.0	2,699.8	2,701.0	2,701.0	5.9	5.9	117.90	95.5	43.7	108.1	96.2	11.84	9.126		
2,800.0	2,799.5	2,800.7	2,800.7	6.1	6.2	121.75	95.5	43.7	112.4	100.2	12.28	9.158		
2,900.0	2,898.7	2,899.9	2,899.9	6.4	6.4	126.59	95.5	43.7	119.3	106.6	12.72	9.383		
3,000.0	2,997.5	2,998.7	2,998.7	6.7	6.6	131.98	95.5	43.7	129.3	116.2	13.16	9.828		
3,100.0	3,095.6	3,096.8	3,096.8	7.0	6.8	137.44	95.5	43.7	142.9	129.3	13.59	10.512		
3,200.0	3,193.1	3,194.3	3,194.3	7.5	7.0	142.62	95.5	43.7	160.3	146.3	14.02	11.439		
3,300.0	3,289.6	3,290.8	3,290.8	8.0	7.3	147.30	95.5	43.7	181.8	167.3	14.42	12.602		
3,400.0	3,385.3	3,386.5	3,386.5	8.7	7.5	151.37	95.5	43.7	207.2	192.4	14.81	13.987		
3,500.0	3,479.8	3,477.9	3,477.9	9.4	7.7	154.97	94.8	44.5	237.1	222.0	15.16	15.638		
3,600.0	3,573.2	3,565.8	3,565.8	10.3	7.8	158.44	92.6	47.5	272.5	257.0	15.46	17.622		
3,700.0	3,665.2	3,650.4	3,650.1	11.3	8.0	161.62	88.9	52.4	313.4	297.7	15.73	19.923		
3,800.0	3,755.8	3,731.3	3,730.6	12.5	8.1	164.47	83.9	59.0	359.8	343.9	15.98	22.521		
3,871.4	3,819.6	3,786.6	3,785.5	13.4	8.3	166.28	79.8	64.5	396.2	380.1	16.14	24.545		
3,900.0	3,845.0	3,808.3	3,806.9	13.8	8.3	167.04	78.0	66.9	411.5	395.2	16.24	25.332		
4,000.0	3,933.8	3,882.5	3,880.2	15.1	8.5	169.43	71.1	76.0	466.0	449.4	16.59	28.087		
4,100.0	4,022.5	3,962.1	3,958.7	16.5	8.6	171.62	62.8	87.0	522.2	505.2	16.96	30.793		
4,200.0	4,111.3	4,043.2	4,038.6	18.0	8.8	173.44	54.4	98.1	578.8	561.5	17.34	33.371		
4,300.0	4,200.0	4,124.4	4,118.5	19.4	9.0	174.94	46.0	109.2	635.8	618.0	17.76	35.807		
4,400.0	4,288.8	4,205.5	4,198.4	20.9	9.2	176.20	37.6	120.4	693.0	674.8	18.19	38.101		
4,500.0	4,377.6	4,286.6	4,278.3	22.4	9.4	177.27	29.2	131.5	750.4	731.8	18.64	40.256		
4,600.0	4,466.3	4,367.7	4,358.2	23.8	9.7	178.19	20.8	142.6	808.0	788.9	19.11	42.277		
4,700.0	4,555.1	4,448.8	4,438.1	25.3	9.9	178.99	12.4	153.8	865.7	846.1	19.60	44.170		
4,800.0	4,643.8	4,529.9	4,518.0	26.8	10.1	179.70	4.0	164.9	923.5	903.4	20.10	45.943		
4,900.0	4,732.6	4,611.0	4,597.9	28.4	10.4	-179.68	-4.4	176.0	981.3	960.7	20.62	47.602		
5,000.0	4,821.4	4,692.2	4,677.8	29.9	10.6	-179.13	-12.8	187.2	1,039.3	1,018.1	21.14	49.154		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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 5-6H - 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	4,910.1	4,773.3	4,757.7	31.4	10.8	-178.64	-21.2	198.3	1,097.3	1,075.6	21.68	50.605		
5,200.0	4,998.9	4,854.4	4,837.6	32.9	11.1	-178.20	-29.6	209.4	1,155.3	1,133.1	22.23	51.964		
5,300.0	5,087.6	4,935.5	4,917.5	34.5	11.3	-177.79	-38.0	220.6	1,213.4	1,190.6	22.79	53.237		
5,400.0	5,176.4	5,016.6	4,997.4	36.0	11.6	-177.43	-46.4	231.7	1,271.5	1,248.2	23.36	54.430		
5,500.0	5,265.1	5,097.7	5,077.3	37.5	11.9	-177.09	-54.8	242.8	1,329.7	1,305.8	23.94	55.549		
5,600.0	5,353.9	5,178.8	5,157.2	39.1	12.1	-176.79	-63.2	254.0	1,387.9	1,363.4	24.52	56.597		
5,700.0	5,442.7	5,259.9	5,237.2	40.6	12.4	-176.51	-71.6	265.1	1,446.1	1,421.0	25.11	57.583		
5,800.0	5,531.4	5,341.1	5,317.1	42.2	12.7	-176.25	-80.0	276.2	1,504.3	1,478.6	25.71	58.509		
5,900.0	5,620.2	5,422.2	5,397.0	43.7	12.9	-176.01	-88.4	287.4	1,562.6	1,536.3	26.31	59.381		
6,000.0	5,708.9	5,503.3	5,476.9	45.3	13.2	-175.78	-96.8	298.5	1,620.8	1,593.9	26.92	60.202		
6,037.9	5,742.6	5,534.0	5,507.2	45.8	13.3	-175.70	-100.0	302.7	1,642.9	1,615.8	27.16	60.501		
6,050.0	5,753.3	5,543.8	5,516.8	46.0	13.3	-175.63	-101.0	304.1	1,650.1	1,622.9	27.15	60.766		
6,100.0	5,796.4	5,585.3	5,557.7	46.9	13.5	-175.27	-105.3	309.8	1,681.3	1,654.1	27.12	61.984		
6,150.0	5,837.6	5,640.6	5,612.4	47.9	13.6	-174.97	-108.3	317.2	1,714.8	1,687.8	27.06	63.377		
6,200.0	5,876.8	5,693.0	5,664.3	48.9	13.8	-174.82	-107.2	323.9	1,750.5	1,723.7	26.90	65.083		
6,250.0	5,913.7	5,741.7	5,712.4	50.1	13.9	-174.78	-102.8	329.9	1,788.3	1,761.7	26.65	67.100		
6,300.0	5,948.2	5,786.2	5,756.1	51.4	14.0	-174.83	-95.9	335.1	1,828.0	1,801.7	26.33	69.418		
6,350.0	5,980.1	5,826.1	5,794.8	52.7	14.0	-174.93	-87.4	339.5	1,869.5	1,843.6	25.96	72.013		
6,400.0	6,009.2	5,861.3	5,828.5	54.1	14.1	-175.05	-78.1	343.2	1,912.8	1,887.2	25.55	74.852		
6,445.1	6,032.9	5,888.8	5,854.6	55.4	14.1	-175.12	-69.7	346.0	1,953.1	1,927.9	25.18	77.577		
6,500.0	6,060.4	5,919.8	5,883.6	57.1	14.2	-175.99	-59.1	349.0	2,002.9	1,977.7	25.27	79.252		
6,595.1	6,107.9	5,972.2	5,931.4	59.9	14.2	-177.53	-38.2	353.6	2,089.1	2,063.6	25.50	81.921		
6,600.0	6,110.4	5,974.9	5,933.8	60.1	14.2	-178.94	-37.1	353.9	2,093.5	2,068.2	25.37	82.520		
6,650.0	6,135.6	6,003.5	5,959.2	61.3	14.3	167.18	-24.1	356.2	2,138.6	2,110.0	28.67	74.584		
6,700.0	6,160.8	6,035.1	5,986.6	62.6	14.3	154.59	-8.7	358.6	2,183.2	2,146.9	36.24	60.238		
6,750.0	6,186.0	6,069.8	6,016.0	63.8	14.3	143.64	9.7	361.0	2,226.8	2,183.2	43.58	51.097		
6,800.0	6,210.9	6,108.1	6,047.4	64.9	14.3	134.32	31.6	363.5	2,269.1	2,219.8	49.33	45.998		
6,850.0	6,235.4	6,150.3	6,080.5	66.0	14.4	126.42	57.6	365.8	2,309.8	2,256.4	53.36	43.282		
6,900.0	6,259.2	6,196.8	6,115.2	67.1	14.4	119.72	88.4	368.0	2,348.4	2,292.5	55.89	42.017		
6,950.0	6,282.2	6,247.9	6,151.0	68.0	14.4	114.00	124.8	369.9	2,384.6	2,327.5	57.18	41.706		
7,000.0	6,304.2	6,303.8	6,187.1	68.9	14.5	109.10	167.4	371.3	2,418.2	2,360.7	57.47	42.078		
7,050.0	6,325.0	6,364.6	6,222.6	69.7	14.6	104.89	216.8	372.2	2,448.8	2,391.8	57.00	42.959		
7,100.0	6,344.5	6,421.2	6,251.8	70.4	14.7	101.24	265.2	372.3	2,476.1	2,420.2	55.94	44.265		
7,150.0	6,362.5	6,464.7	6,273.6	71.0	14.9	98.14	302.9	372.2	2,500.2	2,445.8	54.37	45.980		
7,200.0	6,379.0	6,509.5	6,296.0	71.6	15.2	95.57	341.7	372.2	2,520.9	2,468.5	52.42	48.089		
7,250.0	6,393.6	6,555.3	6,318.9	72.0	15.5	93.50	381.3	372.1	2,538.3	2,488.0	50.26	50.500		
7,300.0	6,406.4	6,596.2	6,338.1	72.4	15.8	91.82	417.5	372.1	2,552.1	2,504.1	48.01	53.156		
7,350.0	6,417.3	6,638.8	6,355.3	72.7	16.2	90.52	456.5	372.0	2,562.3	2,516.5	45.85	55.882		
7,400.0	6,426.2	6,682.8	6,370.0	73.0	16.6	89.57	497.9	372.0	2,569.0	2,525.0	43.97	58.427		
7,450.0	6,432.9	6,727.8	6,381.6	73.2	17.1	88.96	541.4	371.9	2,571.9	2,529.3	42.57	60.411		
7,466.6	6,434.7	6,743.0	6,384.8	73.2	17.3	88.84	556.2	371.9	2,572.1	2,529.8	42.25	60.871		
7,500.0	6,438.0	6,773.5	6,390.0	73.3	17.6	88.89	586.3	371.9	2,572.0	2,528.7	43.24	59.479		
7,600.0	6,447.9	6,871.4	6,400.2	73.7	18.8	88.90	683.6	371.7	2,571.8	2,525.6	46.25	55.604		
7,700.0	6,457.9	6,971.4	6,410.2	74.2	20.1	88.90	783.1	371.6	2,571.7	2,522.1	49.59	51.863		
7,800.0	6,467.8	7,071.4	6,420.1	74.8	21.5	88.90	882.6	371.5	2,571.5	2,518.4	53.17	48.363		
7,900.0	6,477.7	7,171.4	6,430.0	75.4	23.0	88.90	982.1	371.3	2,571.4	2,514.4	56.96	45.142		
8,000.0	6,487.7	7,271.4	6,440.0	76.1	24.5	88.90	1,081.6	371.2	2,571.3	2,510.3	60.92	42.209		
8,100.0	6,497.6	7,371.4	6,449.9	76.9	26.1	88.90	1,181.1	371.0	2,571.1	2,506.1	65.01	39.550		
8,200.0	6,507.5	7,471.4	6,459.8	77.7	27.7	88.90	1,280.6	370.9	2,571.0	2,501.8	69.21	37.146		
8,300.0	6,517.5	7,571.4	6,469.8	78.7	29.4	88.90	1,380.1	370.8	2,570.8	2,497.3	73.51	34.973		
8,400.0	6,527.4	7,671.4	6,479.7	79.7	31.1	88.90	1,479.6	370.6	2,570.7	2,492.8	77.88	33.008		
8,500.0	6,537.3	7,771.4	6,489.6	80.9	32.8	88.90	1,579.1	370.5	2,570.6	2,488.2	82.32	31.227		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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 5-6H - 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		
8,600.0	6,547.2	7,871.4	6,499.6	82.1	34.5	88.90	1,678.6	370.4	2,570.4	2,483.6	86.81	29.609		
8,700.0	6,557.2	7,971.4	6,509.5	83.4	36.3	88.90	1,778.1	370.2	2,570.3	2,478.9	91.35	28.137		
8,800.0	6,567.1	8,071.4	6,519.4	84.9	38.0	88.90	1,877.6	370.1	2,570.1	2,474.2	95.93	26.792		
8,900.0	6,577.0	8,171.4	6,529.4	86.4	39.8	88.90	1,977.1	370.0	2,570.0	2,469.5	100.54	25.561		
9,000.0	6,587.0	8,271.4	6,539.3	88.0	41.6	88.90	2,076.7	369.8	2,569.9	2,464.7	105.19	24.431		
9,100.0	6,596.9	8,371.4	6,549.2	89.7	43.4	88.90	2,176.2	369.7	2,569.7	2,459.9	109.86	23.391		
9,200.0	6,606.8	8,471.4	6,559.1	91.5	45.2	88.90	2,275.7	369.6	2,569.6	2,455.0	114.55	22.432		
9,300.0	6,616.8	8,571.4	6,569.1	93.3	47.1	88.90	2,375.2	369.4	2,569.5	2,450.2	119.26	21.544		
9,400.0	6,626.7	8,671.4	6,579.0	95.3	48.9	88.90	2,474.7	369.3	2,569.3	2,445.3	124.00	20.721		
9,500.0	6,636.6	8,771.4	6,588.9	97.3	50.7	88.90	2,574.2	369.2	2,569.2	2,440.4	128.74	19.956		
9,600.0	6,646.6	8,871.4	6,598.9	99.4	52.6	88.90	2,673.7	369.0	2,569.0	2,435.5	133.51	19.243		
9,700.0	6,656.5	8,971.4	6,608.8	101.5	54.4	88.90	2,773.2	368.9	2,568.9	2,430.6	138.28	18.577		
9,800.0	6,666.4	9,071.4	6,618.7	103.7	56.3	88.90	2,872.7	368.8	2,568.8	2,425.7	143.07	17.955		
9,900.0	6,676.4	9,171.4	6,628.7	106.0	58.1	88.90	2,972.2	368.6	2,568.6	2,420.8	147.86	17.371		
10,000.0	6,686.3	9,271.4	6,638.6	108.3	60.0	88.90	3,071.7	368.5	2,568.5	2,415.8	152.67	16.824		
10,100.0	6,696.2	9,371.4	6,648.5	110.6	61.9	88.90	3,171.2	368.4	2,568.3	2,410.9	157.48	16.308		
10,200.0	6,706.2	9,471.4	6,658.5	113.0	63.7	88.90	3,270.7	368.2	2,568.2	2,405.9	162.31	15.823		
10,300.0	6,716.1	9,571.4	6,668.4	115.5	65.6	88.90	3,370.2	368.1	2,568.1	2,400.9	167.14	15.365		
10,400.0	6,726.0	9,671.4	6,678.3	117.9	67.5	88.90	3,469.7	367.9	2,567.9	2,395.9	171.97	14.932		
10,500.0	6,736.0	9,771.4	6,688.3	120.5	69.4	88.90	3,569.2	367.8	2,567.8	2,391.0	176.82	14.522		
10,600.0	6,745.9	9,871.4	6,698.2	123.0	71.2	88.90	3,668.7	367.7	2,567.6	2,386.0	181.66	14.134		
10,700.0	6,755.8	9,971.4	6,708.1	125.6	73.1	88.90	3,768.2	367.5	2,567.5	2,381.0	186.52	13.766		
10,800.0	6,765.8	10,071.4	6,718.1	128.2	75.0	88.90	3,867.8	367.4	2,567.4	2,376.0	191.37	13.415		
10,900.0	6,775.7	10,171.4	6,728.0	130.8	76.9	88.90	3,967.3	367.3	2,567.2	2,371.0	196.24	13.082		
11,000.0	6,785.6	10,271.4	6,737.9	133.4	78.8	88.90	4,066.8	367.1	2,567.1	2,366.0	201.10	12.765		
11,100.0	6,795.5	10,371.4	6,747.9	136.1	80.7	88.90	4,166.3	367.0	2,567.0	2,361.0	205.97	12.463		
11,200.0	6,805.5	10,471.4	6,757.8	138.8	82.6	88.90	4,265.8	366.9	2,566.8	2,356.0	210.84	12.174		
11,300.0	6,815.4	10,571.4	6,767.7	141.5	84.5	88.90	4,365.3	366.7	2,566.7	2,351.0	215.72	11.898		
11,400.0	6,825.3	10,671.4	6,777.7	144.2	86.4	88.90	4,464.8	366.6	2,566.5	2,345.9	220.60	11.634		
11,500.0	6,835.3	10,771.4	6,787.6	146.9	88.2	88.89	4,564.3	366.5	2,566.4	2,340.9	225.48	11.382		
11,600.0	6,845.2	10,871.4	6,797.5	149.7	90.1	88.89	4,663.8	366.3	2,566.3	2,335.9	230.37	11.140		
11,700.0	6,855.1	10,971.4	6,807.4	152.4	92.0	88.89	4,763.3	366.2	2,566.1	2,330.9	235.26	10.908		
11,800.0	6,865.1	11,071.4	6,817.4	155.2	93.9	88.89	4,862.8	366.1	2,566.0	2,325.8	240.15	10.685		
11,900.0	6,875.0	11,171.4	6,827.3	158.0	95.8	88.89	4,962.3	365.9	2,565.8	2,320.8	245.04	10.471		
12,000.0	6,884.9	11,271.4	6,837.2	160.8	97.7	88.89	5,061.8	365.8	2,565.7	2,315.8	249.93	10.266		
12,100.0	6,894.9	11,371.4	6,847.2	163.6	99.6	88.89	5,161.3	365.7	2,565.6	2,310.7	254.83	10.068		
12,200.0	6,904.8	11,471.4	6,857.1	166.4	101.5	88.89	5,260.8	365.5	2,565.4	2,305.7	259.73	9.877		
12,300.0	6,914.7	11,571.4	6,867.0	169.2	103.4	88.89	5,360.3	365.4	2,565.3	2,300.7	264.63	9.694		
12,400.0	6,924.7	11,671.4	6,877.0	172.0	105.3	88.89	5,459.8	365.3	2,565.1	2,295.6	269.53	9.517		
12,500.0	6,934.6	11,771.4	6,886.9	174.9	107.2	88.89	5,559.3	365.1	2,565.0	2,290.6	274.43	9.347		
12,600.0	6,944.5	11,871.4	6,896.8	177.7	109.2	88.89	5,658.8	365.0	2,564.9	2,285.5	279.33	9.182		
12,700.0	6,954.5	11,971.4	6,906.8	180.6	111.1	88.89	5,758.4	364.8	2,564.7	2,280.5	284.24	9.023		
12,800.0	6,964.4	12,071.4	6,916.7	183.4	113.0	88.89	5,857.9	364.7	2,564.6	2,275.4	289.15	8.870		
12,900.0	6,974.3	12,171.4	6,926.6	186.3	114.9	88.89	5,957.4	364.6	2,564.5	2,270.4	294.05	8.721		
12,974.4	6,981.7	12,245.8	6,934.0	188.4	116.3	88.89	6,031.4	364.5	2,564.3	2,266.6	297.71	8.614		
12,987.5	6,983.0	12,251.7	6,934.6	188.8	116.4	88.89	6,037.3	364.5	2,564.3	2,266.1	298.21	8.599		
12,987.9	6,983.1	12,251.7	6,934.6	188.9	116.4	88.89	6,037.3	364.5	2,564.3	2,266.1	298.22	8.599 SF		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	1.1	1.1	0.0	0.0	24.61	81.8	37.5	90.0					
100.0	100.0	101.1	101.1	0.1	0.1	24.61	81.8	37.5	90.0	89.8	0.19	470.455		
200.0	200.0	201.1	201.1	0.3	0.3	24.61	81.8	37.5	90.0	89.3	0.64	140.427		
300.0	300.0	301.1	301.1	0.5	0.5	24.61	81.8	37.5	90.0	88.9	1.09	82.531		
400.0	400.0	401.1	401.1	0.8	0.8	24.61	81.8	37.5	90.0	88.4	1.54	58.438		
500.0	500.0	501.1	501.1	1.0	1.0	24.61	81.8	37.5	90.0	88.0	1.99	45.233		
600.0	600.0	601.1	601.1	1.2	1.2	24.61	81.8	37.5	90.0	87.5	2.44	36.896		
700.0	700.0	701.1	701.1	1.4	1.4	24.61	81.8	37.5	90.0	87.1	2.89	31.154		
800.0	800.0	801.1	801.1	1.7	1.7	24.61	81.8	37.5	90.0	86.6	3.34	26.958		
900.0	900.0	901.1	901.1	1.9	1.9	24.61	81.8	37.5	90.0	86.2	3.79	23.759		
1,000.0	1,000.0	1,001.1	1,001.1	2.1	2.1	24.61	81.8	37.5	90.0	85.7	4.24	21.238		
1,100.0	1,100.0	1,101.1	1,101.1	2.3	2.3	24.61	81.8	37.5	90.0	85.3	4.69	19.201		
1,200.0	1,200.0	1,201.1	1,201.1	2.6	2.6	24.61	81.8	37.5	90.0	84.9	5.14	17.520		
1,300.0	1,300.0	1,301.1	1,301.1	2.8	2.8	24.61	81.8	37.5	90.0	84.4	5.59	16.110		
1,400.0	1,400.0	1,401.1	1,401.1	3.0	3.0	24.61	81.8	37.5	90.0	84.0	6.04	14.910		
1,500.0	1,500.0	1,501.1	1,501.1	3.2	3.2	24.61	81.8	37.5	90.0	83.5	6.48	13.877		
1,600.0	1,600.0	1,601.1	1,601.1	3.5	3.5	24.61	81.8	37.5	90.0	83.1	6.93	12.977		
1,700.0	1,700.0	1,701.1	1,701.1	3.7	3.7	24.61	81.8	37.5	90.0	82.6	7.38	12.187		
1,800.0	1,800.0	1,801.1	1,801.1	3.9	3.9	24.61	81.8	37.5	90.0	82.2	7.83	11.488		
1,900.0	1,900.0	1,901.1	1,901.1	4.1	4.1	24.61	81.8	37.5	90.0	81.7	8.28	10.864		
2,000.0	2,000.0	2,001.1	2,001.1	4.4	4.4	24.61	81.8	37.5	90.0	81.3	8.73	10.305		
2,100.0	2,100.0	2,101.1	2,101.1	4.6	4.6	24.61	81.8	37.5	90.0	80.8	9.18	9.800		
2,200.0	2,200.0	2,201.1	2,201.1	4.8	4.8	24.61	81.8	37.5	90.0	80.4	9.63	9.343		
2,300.0	2,300.0	2,301.1	2,301.1	5.0	5.0	24.61	81.8	37.5	90.0	79.9	10.08	8.926		
2,400.0	2,400.0	2,401.1	2,401.1	5.3	5.3	24.61	81.8	37.5	90.0	79.5	10.53	8.545		
2,500.0	2,500.0	2,501.1	2,501.1	5.5	5.5	24.61	81.8	37.5	90.0	79.0	10.98	8.195 CC, ES		
2,600.0	2,600.0	2,601.1	2,601.1	5.7	5.7	115.60	81.8	37.5	90.7	79.3	11.42	7.947		
2,700.0	2,699.8	2,700.9	2,700.9	5.9	5.9	118.46	81.8	37.5	93.1	81.3	11.84	7.861 SF		
2,800.0	2,799.5	2,800.6	2,800.6	6.1	6.2	122.88	81.8	37.5	97.6	85.3	12.28	7.948		
2,900.0	2,898.7	2,899.8	2,899.8	6.4	6.4	128.35	81.8	37.5	104.7	92.0	12.71	8.237		
3,000.0	2,997.5	2,998.6	2,998.6	6.7	6.6	134.28	81.8	37.5	115.1	102.0	13.15	8.758		
3,100.0	3,095.6	3,096.7	3,096.7	7.0	6.8	140.11	81.8	37.5	129.3	115.7	13.57	9.527		
3,200.0	3,193.1	3,192.6	3,192.6	7.5	7.0	145.49	81.7	37.8	147.6	133.6	13.97	10.567		
3,300.0	3,289.6	3,284.7	3,284.6	8.0	7.2	150.60	81.1	40.6	172.0	157.7	14.32	12.015		
3,400.0	3,385.3	3,373.7	3,373.5	8.7	7.4	155.22	79.9	46.0	203.0	188.4	14.64	13.871		
3,500.0	3,479.8	3,459.4	3,458.8	9.4	7.6	159.15	78.2	53.8	240.7	225.7	14.94	16.110		
3,600.0	3,573.2	3,541.2	3,540.0	10.3	7.7	162.39	76.0	63.5	284.6	269.4	15.22	18.695		
3,700.0	3,665.2	3,619.0	3,616.9	11.3	7.9	165.01	73.5	74.9	334.5	319.0	15.50	21.586		
3,800.0	3,755.8	3,692.5	3,689.3	12.5	8.1	167.13	70.7	87.5	389.9	374.1	15.76	24.745		
3,871.4	3,819.6	3,742.2	3,738.0	13.4	8.2	168.39	68.6	97.0	432.6	416.7	15.94	27.143		
3,900.0	3,845.0	3,761.6	3,757.0	13.8	8.3	168.93	67.7	101.0	450.3	434.3	16.04	28.066		
4,000.0	3,933.8	3,827.7	3,821.4	15.1	8.5	170.57	64.5	115.4	513.5	497.1	16.42	31.270		
4,100.0	4,022.5	3,891.2	3,883.0	16.5	8.6	171.92	61.1	130.6	578.6	561.8	16.80	34.430		
4,200.0	4,111.3	3,952.4	3,941.9	18.0	8.8	173.04	57.6	146.5	645.4	628.2	17.19	37.541		
4,300.0	4,200.0	4,011.2	3,998.3	19.4	9.0	173.99	53.9	162.9	713.9	696.3	17.59	40.586		
4,400.0	4,288.8	4,067.7	4,052.1	20.9	9.3	174.80	50.2	179.8	783.9	765.9	17.99	43.568		
4,500.0	4,377.6	4,129.7	4,110.8	22.4	9.5	175.60	45.9	199.2	855.2	836.7	18.41	46.456		
4,600.0	4,466.3	4,199.1	4,176.5	23.8	9.8	176.37	41.0	221.2	926.7	907.8	18.84	49.195		
4,700.0	4,555.1	4,268.5	4,242.1	25.3	10.1	177.03	36.1	243.2	998.3	979.0	19.28	51.775		
4,800.0	4,643.8	4,337.9	4,307.7	26.8	10.4	177.60	31.2	265.1	1,069.9	1,050.2	19.73	54.215		
4,900.0	4,732.6	4,407.3	4,373.4	28.4	10.8	178.10	26.3	287.1	1,141.6	1,121.4	20.20	56.522		
5,000.0	4,821.4	4,476.7	4,439.0	29.9	11.1	178.54	21.5	309.0	1,213.3	1,192.7	20.67	58.698		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
5,100.0	4,910.1	4,546.1	4,504.7	31.4	11.5	178.94	16.6	331.0	1,285.1	1,263.9	21.15	60.756		
5,200.0	4,998.9	4,615.5	4,570.3	32.9	11.9	179.29	11.7	353.0	1,356.9	1,335.2	21.64	62.703		
5,300.0	5,087.6	4,684.8	4,635.9	34.5	12.2	179.61	6.8	374.9	1,428.7	1,406.5	22.14	64.544		
5,400.0	5,176.4	4,754.2	4,701.6	36.0	12.6	179.89	1.9	396.9	1,500.5	1,477.9	22.64	66.285		
5,500.0	5,265.1	4,823.6	4,767.2	37.5	13.0	-179.85	-2.9	418.8	1,572.3	1,549.2	23.14	67.935		
5,600.0	5,353.9	4,893.0	4,832.9	39.1	13.4	-179.61	-7.8	440.8	1,644.2	1,620.5	23.66	69.499		
5,700.0	5,442.7	4,962.4	4,898.5	40.6	13.8	-179.39	-12.7	462.8	1,716.1	1,691.9	24.18	70.980		
5,800.0	5,531.4	5,031.8	4,964.1	42.2	14.2	-179.19	-17.6	484.7	1,788.0	1,763.3	24.70	72.386		
5,900.0	5,620.2	5,101.2	5,029.8	43.7	14.6	-179.00	-22.5	506.7	1,859.9	1,834.6	25.23	73.723		
6,000.0	5,708.9	5,170.6	5,095.4	45.3	15.0	-178.83	-27.3	528.6	1,931.8	1,906.0	25.76	74.990		
6,037.9	5,742.6	5,196.9	5,120.3	45.8	15.2	-178.77	-29.2	537.0	1,959.0	1,933.1	25.96	75.455		
6,050.0	5,753.3	5,205.2	5,128.2	46.0	15.2	-178.73	-29.8	539.6	1,967.8	1,941.8	25.94	75.861		
6,100.0	5,796.4	5,238.0	5,159.2	46.9	15.4	-178.55	-32.1	550.0	2,005.5	1,979.7	25.80	77.726		
6,150.0	5,837.6	5,268.1	5,187.7	47.9	15.6	-178.33	-34.2	559.5	2,045.4	2,019.8	25.60	79.885		
6,200.0	5,876.8	5,295.3	5,213.4	48.9	15.8	-178.08	-36.1	568.1	2,087.3	2,061.9	25.35	82.329		
6,250.0	5,913.7	5,319.6	5,236.4	50.1	15.9	-177.76	-37.8	575.8	2,131.0	2,105.9	25.06	85.032		
6,300.0	5,948.2	5,340.7	5,256.4	51.4	16.1	-177.36	-39.3	582.5	2,176.3	2,151.5	24.75	87.947		
6,350.0	5,980.1	5,358.7	5,273.4	52.7	16.2	-176.80	-40.6	588.2	2,222.9	2,198.5	24.44	90.968		
6,400.0	6,009.2	5,373.3	5,287.3	54.1	16.3	-175.96	-41.6	592.8	2,270.7	2,246.5	24.20	93.839		
6,445.1	6,032.9	5,383.7	5,297.0	55.4	16.3	-174.73	-42.3	596.1	2,314.5	2,290.4	24.18	95.717		
6,500.0	6,060.4	5,394.6	5,307.4	57.1	16.4	-174.75	-43.1	599.5	2,368.4	2,343.9	24.50	96.650		
6,595.1	6,107.9	5,413.5	5,325.3	59.9	16.5	-174.80	-44.4	605.5	2,461.6	2,436.5	25.07	98.177		
6,600.0	6,110.4	5,414.5	5,326.2	60.1	16.5	-177.51	-44.5	605.8	2,466.4	2,442.0	24.41	101.020		
6,650.0	6,135.6	5,424.5	5,335.6	61.3	16.6	156.95	-45.2	609.0	2,515.3	2,479.6	35.72	70.416		
6,700.0	6,160.8	5,434.4	5,345.0	62.6	16.6	137.65	-45.9	612.1	2,563.8	2,512.4	51.39	49.886		
6,750.0	6,186.0	5,444.3	5,354.4	63.8	16.7	124.06	-46.6	615.3	2,611.6	2,550.8	60.80	42.957		
6,800.0	6,210.9	5,453.9	5,363.5	64.9	16.8	114.18	-47.3	618.3	2,658.4	2,592.6	65.83	40.383		
6,850.0	6,235.4	5,463.4	5,372.4	66.0	16.8	106.60	-47.9	621.3	2,703.8	2,635.6	68.25	39.617		
6,900.0	6,259.2	5,472.5	5,381.0	67.1	16.9	100.52	-48.6	624.2	2,747.7	2,678.7	69.00	39.820		
6,950.0	6,282.2	5,481.2	5,389.3	68.0	16.9	95.46	-49.2	626.9	2,789.6	2,721.1	68.58	40.675		
7,000.0	6,304.2	5,489.5	5,397.1	68.9	17.0	91.18	-49.8	629.6	2,829.6	2,762.3	67.27	42.061		
7,050.0	6,325.0	5,497.2	5,404.5	69.7	17.0	87.50	-50.3	632.0	2,867.2	2,801.9	65.25	43.943		
7,100.0	6,344.5	5,504.4	5,411.3	70.4	17.1	84.32	-50.8	634.3	2,902.3	2,839.7	62.63	46.340		
7,150.0	6,362.5	5,511.0	5,417.4	71.0	17.1	81.57	-51.3	636.4	2,934.9	2,875.3	59.53	49.301		
7,200.0	6,379.0	5,516.8	5,423.0	71.6	17.1	79.21	-51.7	638.2	2,964.6	2,908.6	56.04	52.902		
7,250.0	6,393.6	5,522.0	5,427.9	72.0	17.2	77.19	-52.0	639.8	2,991.4	2,939.1	52.27	57.233		
7,300.0	6,406.4	5,526.4	5,432.0	72.4	17.2	75.48	-52.4	641.2	3,015.2	2,966.8	48.33	62.381		
7,350.0	6,417.3	5,529.9	5,435.4	72.7	17.2	74.08	-52.6	642.4	3,035.8	2,991.4	44.39	68.383		
7,400.0	6,426.2	5,532.7	5,438.0	73.0	17.2	72.95	-52.8	643.2	3,053.1	3,012.5	40.65	75.113		
7,450.0	6,432.9	5,534.6	5,439.8	73.2	17.3	72.09	-52.9	643.8	3,067.2	3,029.8	37.37	82.082		
7,466.6	6,434.7	5,535.1	5,440.2	73.2	17.3	71.86	-53.0	644.0	3,071.1	3,034.7	36.44	84.281		
7,500.0	6,438.0	5,535.9	5,441.0	73.3	17.3	71.88	-53.0	644.2	3,078.8	3,041.7	37.08	83.022		
7,600.0	6,447.9	5,538.3	5,443.3	73.7	17.3	71.92	-53.2	645.0	3,103.9	3,064.9	38.94	79.699		
7,700.0	6,457.9	5,540.7	5,445.5	74.2	17.3	71.97	-53.4	645.8	3,131.9	3,090.9	40.98	76.426		
7,800.0	6,467.8	5,543.1	5,447.8	74.8	17.3	72.02	-53.5	646.5	3,162.9	3,119.7	43.15	73.293		
7,900.0	6,477.7	5,545.5	5,450.1	75.4	17.3	72.06	-53.7	647.3	3,196.7	3,151.2	45.44	70.348		
8,000.0	6,487.7	7,384.2	6,454.2	76.1	29.2	89.38	1,077.8	1,026.5	3,226.3	3,165.1	61.20	52.716		
8,100.0	6,497.6	7,484.2	6,464.2	76.9	30.4	89.38	1,177.3	1,026.5	3,226.3	3,161.1	65.20	49.480		
8,200.0	6,507.5	7,584.2	6,474.1	77.7	31.6	89.38	1,276.8	1,026.5	3,226.2	3,156.9	69.33	46.536		
8,300.0	6,517.5	7,684.2	6,484.0	78.7	33.0	89.38	1,376.3	1,026.4	3,226.2	3,152.6	73.55	43.863		
8,400.0	6,527.4	7,784.2	6,494.0	79.7	34.4	89.38	1,475.8	1,026.4	3,226.1	3,148.3	77.86	41.435		
8,500.0	6,537.3	7,884.2	6,503.9	80.9	35.9	89.38	1,575.3	1,026.3	3,226.1	3,143.9	82.24	39.227		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
8,600.0	6,547.2	7,984.2	6,513.8	82.1	37.4	89.38	1,674.8	1,026.3	3,226.1	3,139.4	86.68	37.217		
8,700.0	6,557.2	8,084.2	6,523.8	83.4	38.9	89.38	1,774.3	1,026.3	3,226.0	3,134.9	91.18	35.382		
8,800.0	6,567.1	8,184.2	6,533.7	84.9	40.5	89.38	1,873.8	1,026.2	3,226.0	3,130.3	95.71	33.705		
8,900.0	6,577.0	8,284.2	6,543.6	86.4	42.1	89.38	1,973.3	1,026.2	3,226.0	3,125.7	100.29	32.166		
9,000.0	6,587.0	8,384.2	6,553.6	88.0	43.8	89.38	2,072.8	1,026.2	3,225.9	3,121.0	104.90	30.752		
9,100.0	6,596.9	8,484.2	6,563.5	89.7	45.4	89.38	2,172.3	1,026.1	3,225.9	3,116.3	109.54	29.450		
9,200.0	6,606.8	8,584.2	6,573.4	91.5	47.1	89.38	2,271.9	1,026.1	3,225.8	3,111.6	114.20	28.247		
9,300.0	6,616.8	8,684.2	6,583.4	93.3	48.8	89.38	2,371.4	1,026.1	3,225.8	3,106.9	118.89	27.133		
9,400.0	6,626.7	8,784.2	6,593.3	95.3	50.5	89.38	2,470.9	1,026.0	3,225.8	3,102.2	123.60	26.099		
9,500.0	6,636.6	8,884.2	6,603.2	97.3	52.3	89.38	2,570.4	1,026.0	3,225.7	3,097.4	128.32	25.138		
9,600.0	6,646.6	8,984.2	6,613.2	99.4	54.0	89.38	2,669.9	1,026.0	3,225.7	3,092.6	133.06	24.242		
9,700.0	6,656.5	9,084.2	6,623.1	101.5	55.8	89.38	2,769.4	1,025.9	3,225.7	3,087.8	137.82	23.405		
9,800.0	6,666.4	9,184.2	6,633.0	103.7	57.6	89.38	2,868.9	1,025.9	3,225.6	3,083.0	142.59	22.622		
9,900.0	6,676.4	9,284.2	6,643.0	106.0	59.3	89.38	2,968.4	1,025.9	3,225.6	3,078.2	147.37	21.888		
10,000.0	6,686.3	9,384.2	6,652.9	108.3	61.1	89.38	3,067.9	1,025.8	3,225.5	3,073.4	152.16	21.199		
10,100.0	6,696.2	9,484.2	6,662.8	110.6	62.9	89.38	3,167.4	1,025.8	3,225.5	3,068.5	156.96	20.550		
10,200.0	6,706.2	9,584.2	6,672.7	113.0	64.7	89.38	3,266.9	1,025.8	3,225.5	3,063.7	161.77	19.939		
10,300.0	6,716.1	9,684.2	6,682.7	115.5	66.6	89.38	3,366.4	1,025.7	3,225.4	3,058.8	166.58	19.362		
10,400.0	6,726.0	9,784.2	6,692.6	117.9	68.4	89.38	3,465.9	1,025.7	3,225.4	3,054.0	171.41	18.817		
10,500.0	6,736.0	9,884.2	6,702.5	120.5	70.2	89.38	3,565.4	1,025.7	3,225.3	3,049.1	176.24	18.301		
10,600.0	6,745.9	9,984.2	6,712.5	123.0	72.0	89.38	3,664.9	1,025.6	3,225.3	3,044.2	181.07	17.812		
10,700.0	6,755.8	10,084.2	6,722.4	125.6	73.9	89.38	3,764.4	1,025.6	3,225.3	3,039.4	185.92	17.348		
10,800.0	6,765.8	10,184.2	6,732.3	128.2	75.7	89.38	3,863.9	1,025.6	3,225.2	3,034.5	190.76	16.907		
10,900.0	6,775.7	10,284.2	6,742.3	130.8	77.5	89.38	3,963.4	1,025.5	3,225.2	3,029.6	195.62	16.487		
11,000.0	6,785.6	10,384.2	6,752.2	133.4	79.4	89.38	4,063.0	1,025.5	3,225.2	3,024.7	200.47	16.088		
11,100.0	6,795.5	10,484.2	6,762.1	136.1	81.2	89.38	4,162.5	1,025.5	3,225.1	3,019.8	205.33	15.707		
11,200.0	6,805.5	10,584.2	6,772.1	138.8	83.1	89.38	4,262.0	1,025.4	3,225.1	3,014.9	210.20	15.343		
11,300.0	6,815.4	10,684.2	6,782.0	141.5	85.0	89.38	4,361.5	1,025.4	3,225.0	3,010.0	215.07	14.995		
11,400.0	6,825.3	10,784.2	6,791.9	144.2	86.8	89.38	4,461.0	1,025.4	3,225.0	3,005.1	219.94	14.663		
11,500.0	6,835.3	10,884.2	6,801.9	146.9	88.7	89.38	4,560.5	1,025.3	3,225.0	3,000.1	224.82	14.345		
11,600.0	6,845.2	10,984.2	6,811.8	149.7	90.5	89.38	4,660.0	1,025.3	3,224.9	2,995.2	229.69	14.040		
11,700.0	6,855.1	11,084.2	6,821.7	152.4	92.4	89.38	4,759.5	1,025.3	3,224.9	2,990.3	234.58	13.748		
11,800.0	6,865.1	11,184.2	6,831.7	155.2	94.3	89.38	4,859.0	1,025.2	3,224.9	2,985.4	239.46	13.467		
11,900.0	6,875.0	11,284.2	6,841.6	158.0	96.1	89.38	4,958.5	1,025.2	3,224.8	2,980.5	244.35	13.198		
12,000.0	6,884.9	11,384.2	6,851.5	160.8	98.0	89.38	5,058.0	1,025.2	3,224.8	2,975.5	249.23	12.939		
12,100.0	6,894.9	11,484.2	6,861.5	163.6	99.9	89.38	5,157.5	1,025.1	3,224.7	2,970.6	254.12	12.690		
12,200.0	6,904.8	11,584.2	6,871.4	166.4	101.8	89.38	5,257.0	1,025.1	3,224.7	2,965.7	259.02	12.450		
12,300.0	6,914.7	11,684.2	6,881.3	169.2	103.7	89.38	5,356.5	1,025.1	3,224.7	2,960.7	263.91	12.219		
12,400.0	6,924.7	11,784.2	6,891.3	172.0	105.5	89.38	5,456.0	1,025.0	3,224.6	2,955.8	268.81	11.996		
12,500.0	6,934.6	11,884.2	6,901.2	174.9	107.4	89.38	5,555.5	1,025.0	3,224.6	2,950.9	273.71	11.781		
12,600.0	6,944.5	11,984.2	6,911.1	177.7	109.3	89.38	5,655.0	1,025.0	3,224.5	2,945.9	278.61	11.574		
12,700.0	6,954.5	12,084.2	6,921.0	180.6	111.2	89.38	5,754.5	1,024.9	3,224.5	2,941.0	283.51	11.374		
12,800.0	6,964.4	12,184.2	6,931.0	183.4	113.1	89.38	5,854.1	1,024.9	3,224.5	2,936.1	288.41	11.180		
12,900.0	6,974.3	12,284.2	6,940.9	186.3	115.0	89.38	5,953.6	1,024.8	3,224.4	2,931.1	293.31	10.993		
12,972.2	6,981.5	12,356.4	6,948.1	188.4	116.3	89.38	6,025.4	1,024.8	3,224.4	2,927.5	296.85	10.862		
12,987.5	6,983.0	12,368.6	6,949.3	188.8	116.6	89.38	6,037.6	1,024.8	3,224.4	2,926.9	297.55	10.837		
12,987.9	6,983.1	12,368.6	6,949.3	188.9	116.6	89.38	6,037.6	1,024.8	3,224.4	2,926.8	297.56	10.836		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	1.0	1.0	0.0	0.0	24.60	68.2	31.2	75.0					
100.0	100.0	101.0	101.0	0.1	0.1	24.60	68.2	31.2	75.0	74.8	0.19	392.597		
200.0	200.0	201.0	201.0	0.3	0.3	24.60	68.2	31.2	75.0	74.4	0.64	117.090		
300.0	300.0	301.0	301.0	0.5	0.5	24.60	68.2	31.2	75.0	73.9	1.09	68.806		
400.0	400.0	401.0	401.0	0.8	0.8	24.60	68.2	31.2	75.0	73.5	1.54	48.716		
500.0	500.0	501.0	501.0	1.0	1.0	24.60	68.2	31.2	75.0	73.0	1.99	37.707		
600.0	600.0	601.0	601.0	1.2	1.2	24.60	68.2	31.2	75.0	72.6	2.44	30.756		
700.0	700.0	701.0	701.0	1.4	1.4	24.60	68.2	31.2	75.0	72.1	2.89	25.969		
800.0	800.0	801.0	801.0	1.7	1.7	24.60	68.2	31.2	75.0	71.7	3.34	22.472		
900.0	900.0	901.0	901.0	1.9	1.9	24.60	68.2	31.2	75.0	71.2	3.79	19.805		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.60	68.2	31.2	75.0	70.8	4.24	17.703		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.60	68.2	31.2	75.0	70.3	4.69	16.005		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.60	68.2	31.2	75.0	69.9	5.14	14.604		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.60	68.2	31.2	75.0	69.4	5.59	13.429		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.60	68.2	31.2	75.0	69.0	6.03	12.429		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.60	68.2	31.2	75.0	68.5	6.48	11.567		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.60	68.2	31.2	75.0	68.1	6.93	10.817		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.60	68.2	31.2	75.0	67.6	7.38	10.159		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.60	68.2	31.2	75.0	67.2	7.83	9.576		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.60	68.2	31.2	75.0	66.7	8.28	9.056		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.60	68.2	31.2	75.0	66.3	8.73	8.590		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.60	68.2	31.2	75.0	65.8	9.18	8.169		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.60	68.2	31.2	75.0	65.4	9.63	7.788		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.60	68.2	31.2	75.0	64.9	10.08	7.441		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.60	68.2	31.2	75.0	64.5	10.53	7.123		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.60	68.2	31.2	75.0	64.0	10.98	6.831 CC, ES		
2,600.0	2,600.0	2,601.0	2,601.0	5.7	5.7	115.78	68.2	31.2	75.7	64.3	11.42	6.635		
2,700.0	2,699.8	2,700.8	2,700.8	5.9	5.9	119.19	68.2	31.2	78.2	66.3	11.84	6.600 SF		
2,800.0	2,799.5	2,800.5	2,800.5	6.1	6.2	124.38	68.2	31.2	82.8	70.5	12.27	6.744		
2,900.0	2,898.7	2,899.7	2,899.7	6.4	6.4	130.63	68.2	31.2	90.2	77.5	12.71	7.103		
3,000.0	2,997.5	2,996.1	2,996.1	6.7	6.6	137.69	68.1	32.8	102.3	89.2	13.11	7.805		
3,100.0	3,095.6	3,090.5	3,090.4	7.0	6.8	145.01	67.7	37.5	121.0	107.5	13.48	8.979		
3,200.0	3,193.1	3,182.3	3,181.8	7.5	7.0	151.48	67.0	45.1	146.9	133.1	13.82	10.628		
3,300.0	3,289.6	3,270.9	3,269.8	8.0	7.2	156.75	66.1	55.1	180.0	165.8	14.15	12.722		
3,400.0	3,385.3	3,355.9	3,354.0	8.7	7.4	160.84	65.1	67.3	219.9	205.4	14.45	15.210		
3,500.0	3,479.8	3,437.0	3,433.9	9.4	7.5	163.99	63.9	81.2	266.1	251.3	14.75	18.041		
3,600.0	3,573.2	3,513.9	3,509.2	10.3	7.7	166.40	62.6	96.5	318.2	303.1	15.03	21.167		
3,700.0	3,665.2	3,586.3	3,579.8	11.3	8.0	168.25	61.2	112.7	375.6	360.3	15.30	24.548		
3,800.0	3,755.8	3,654.3	3,645.6	12.5	8.2	169.69	59.7	129.6	438.1	422.5	15.57	28.145		
3,871.4	3,819.6	3,700.0	3,689.6	13.4	8.3	170.52	58.7	141.8	485.5	469.8	15.75	30.828		
3,900.0	3,845.0	3,717.7	3,706.6	13.8	8.4	170.90	58.2	146.7	505.0	489.2	15.86	31.846		
4,000.0	3,933.8	3,780.7	3,766.9	15.1	8.6	172.09	56.7	165.0	574.3	558.0	16.25	35.346		
4,100.0	4,022.5	3,851.8	3,834.8	16.5	8.9	173.17	54.8	186.0	644.1	627.4	16.65	38.677		
4,200.0	4,111.3	3,922.9	3,902.7	18.0	9.2	174.04	53.0	207.1	714.0	696.9	17.06	41.843		
4,300.0	4,200.0	3,994.0	3,970.6	19.4	9.5	174.75	51.2	228.1	784.0	766.5	17.49	44.832		
4,400.0	4,288.8	4,065.2	4,038.5	20.9	9.8	175.35	49.4	249.2	854.0	836.1	17.92	47.653		
4,500.0	4,377.6	4,136.3	4,106.4	22.4	10.1	175.86	47.6	270.3	924.1	905.7	18.36	50.320		
4,600.0	4,466.3	4,207.4	4,174.3	23.8	10.5	176.30	45.7	291.3	994.2	975.4	18.82	52.840		
4,700.0	4,555.1	4,278.5	4,242.2	25.3	10.8	176.68	43.9	312.4	1,064.3	1,045.1	19.28	55.219		
4,800.0	4,643.8	4,349.6	4,310.1	26.8	11.2	177.01	42.1	333.4	1,134.5	1,114.8	19.74	57.468		
4,900.0	4,732.6	4,420.7	4,378.0	28.4	11.5	177.31	40.3	354.5	1,204.7	1,184.5	20.21	59.596		
5,000.0	4,821.4	4,491.8	4,445.9	29.9	11.9	177.57	38.5	375.5	1,274.9	1,254.2	20.69	61.609		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
5,100.0	4,910.1	4,562.9	4,513.8	31.4	12.2	177.81	36.7	396.6	1,345.1	1,323.9	21.18	63.513		
5,200.0	4,998.9	4,634.1	4,581.7	32.9	12.6	178.02	34.8	417.6	1,415.3	1,393.6	21.67	65.318		
5,300.0	5,087.6	4,705.2	4,649.6	34.5	13.0	178.21	33.0	438.7	1,485.5	1,463.3	22.16	67.029		
5,400.0	5,176.4	4,776.3	4,717.5	36.0	13.4	178.39	31.2	459.7	1,555.7	1,533.1	22.66	68.651		
5,500.0	5,265.1	4,847.4	4,785.4	37.5	13.8	178.54	29.4	480.8	1,626.0	1,602.8	23.17	70.190		
5,600.0	5,353.9	4,918.5	4,853.3	39.1	14.2	178.69	27.6	501.8	1,696.2	1,672.5	23.67	71.653		
5,700.0	5,442.7	4,989.6	4,921.2	40.6	14.6	178.83	25.8	522.9	1,766.5	1,742.3	24.18	73.043		
5,800.0	5,531.4	5,060.7	4,989.1	42.2	15.0	178.95	23.9	543.9	1,836.7	1,812.0	24.70	74.364		
5,900.0	5,620.2	5,131.8	5,057.0	43.7	15.4	179.07	22.1	565.0	1,907.0	1,881.7	25.22	75.622		
6,000.0	5,708.9	5,203.0	5,124.9	45.3	15.8	179.17	20.3	586.0	1,977.2	1,951.5	25.74	76.821		
6,037.9	5,742.6	5,229.9	5,150.7	45.8	15.9	179.21	19.6	594.0	2,003.9	1,977.9	25.94	77.259		
6,050.0	5,753.3	5,238.4	5,158.8	46.0	16.0	179.21	19.4	596.6	2,012.4	1,986.5	25.91	77.671		
6,100.0	5,796.4	5,272.1	5,191.0	46.9	16.2	179.20	18.5	606.5	2,049.3	2,023.6	25.75	79.573		
6,150.0	5,837.6	5,303.2	5,220.6	47.9	16.3	179.18	17.7	615.7	2,088.5	2,063.0	25.54	81.790		
6,200.0	5,876.8	5,331.4	5,247.5	48.9	16.5	179.15	17.0	624.1	2,129.8	2,104.5	25.26	84.321		
6,250.0	5,913.7	5,356.6	5,271.7	50.1	16.7	179.09	16.4	631.5	2,172.9	2,148.0	24.93	87.166		
6,300.0	5,948.2	5,378.8	5,292.9	51.4	16.8	179.01	15.8	638.1	2,217.7	2,193.1	24.55	90.318		
6,350.0	5,980.1	5,397.9	5,311.0	52.7	16.9	178.89	15.3	643.8	2,263.9	2,239.7	24.15	93.762		
6,400.0	6,009.2	5,413.6	5,326.1	54.1	17.0	178.69	14.9	648.4	2,311.3	2,287.6	23.71	97.464		
6,445.1	6,032.9	5,425.0	5,336.9	55.4	17.0	178.39	14.6	651.8	2,354.9	2,331.6	23.32	100.963		
6,500.0	6,060.4	5,437.1	5,348.5	57.1	17.1	178.46	14.3	655.4	2,408.5	2,384.9	23.62	101.971		
6,595.1	6,107.9	5,458.1	5,368.6	59.9	17.2	178.57	13.8	661.6	2,501.2	2,477.1	24.14	103.624		
6,600.0	6,110.4	5,459.2	5,369.6	60.1	17.2	176.15	13.8	661.9	2,506.0	2,481.5	24.52	102.185		
6,650.0	6,135.6	5,470.4	5,380.3	61.3	17.3	153.84	13.5	665.2	2,554.6	2,516.2	38.45	66.434		
6,700.0	6,160.8	5,481.7	5,391.1	62.6	17.4	136.90	13.2	668.6	2,602.8	2,550.6	52.12	49.936		
6,750.0	6,186.0	5,493.2	5,402.0	63.8	17.4	124.53	12.9	672.0	2,650.1	2,589.5	60.57	43.751		
6,800.0	6,210.9	5,504.6	5,412.9	64.9	17.5	115.22	12.6	675.3	2,696.2	2,630.9	65.30	41.288		
6,850.0	6,235.4	5,515.9	5,423.7	66.0	17.6	107.90	12.3	678.7	2,741.0	2,673.3	67.66	40.510		
6,900.0	6,259.2	5,527.0	5,434.3	67.1	17.6	101.94	12.0	682.0	2,784.0	2,715.6	68.43	40.684		
6,950.0	6,282.2	5,537.9	5,444.7	68.0	17.7	96.94	11.7	685.2	2,825.2	2,757.1	68.05	41.516		
7,000.0	6,304.2	5,548.4	5,454.7	68.9	17.8	92.68	11.5	688.3	2,864.2	2,797.4	66.78	42.890		
7,050.0	6,325.0	5,558.5	5,464.4	69.7	17.8	89.02	11.2	691.3	2,900.8	2,836.0	64.79	44.770		
7,100.0	6,344.5	5,568.0	5,473.5	70.4	17.9	85.85	11.0	694.1	2,934.9	2,872.7	62.22	47.170		
7,150.0	6,362.5	5,577.0	5,482.1	71.0	17.9	83.11	10.7	696.8	2,966.4	2,907.2	59.17	50.137		
7,200.0	6,379.0	5,585.3	5,490.0	71.6	18.0	80.76	10.5	699.3	2,995.0	2,939.3	55.73	53.737		
7,250.0	6,393.6	5,593.0	5,497.3	72.0	18.0	78.75	10.3	701.5	3,020.6	2,968.6	52.04	58.049		
7,300.0	6,406.4	5,599.8	5,503.9	72.4	18.1	77.07	10.2	703.5	3,043.2	2,995.0	48.20	63.140		
7,350.0	6,417.3	5,605.9	5,509.6	72.7	18.1	75.69	10.0	705.3	3,062.6	3,018.2	44.38	69.013		
7,400.0	6,426.2	5,611.0	5,514.5	73.0	18.1	74.59	9.9	706.9	3,078.8	3,038.0	40.78	75.499		
7,450.0	6,432.9	5,615.3	5,518.6	73.2	18.2	73.77	9.8	708.1	3,091.6	3,053.9	37.67	82.063		
7,466.6	6,434.7	5,616.5	5,519.7	73.2	18.2	73.55	9.7	708.5	3,095.1	3,058.3	36.81	84.089		
7,500.0	6,438.0	5,618.8	5,522.0	73.3	18.2	73.60	9.7	709.2	3,102.0	3,064.5	37.46	82.800		
7,600.0	6,447.9	5,625.7	5,528.6	73.7	18.2	73.73	9.5	711.2	3,124.6	3,085.2	39.35	79.398		
7,700.0	6,457.9	5,632.7	5,535.2	74.2	18.3	73.86	9.3	713.3	3,150.2	3,108.8	41.42	76.053		
7,800.0	6,467.8	5,639.6	5,541.8	74.8	18.3	73.99	9.1	715.3	3,178.7	3,135.1	43.63	72.854		
7,900.0	6,477.7	5,646.5	5,548.5	75.4	18.3	74.12	9.0	717.4	3,210.1	3,164.2	45.96	69.849		
8,000.0	6,487.7	5,653.5	5,555.1	76.1	18.4	74.25	8.8	719.4	3,244.3	3,195.9	48.38	67.060		
8,100.0	6,497.6	5,660.4	5,561.7	76.9	18.4	74.38	8.6	721.5	3,281.1	3,230.2	50.88	64.493		
8,200.0	6,507.5	5,667.4	5,568.4	77.7	18.5	74.51	8.4	723.5	3,320.5	3,267.1	53.44	62.140		
8,300.0	6,517.5	5,674.3	5,575.0	78.7	18.5	74.64	8.3	725.6	3,362.4	3,306.4	56.05	59.991		
8,400.0	6,527.4	5,676.4	5,577.0	79.7	18.5	74.68	8.2	726.2	3,406.8	3,348.1	58.68	58.060		
8,500.0	6,537.3	5,676.4	5,577.0	80.9	18.5	74.68	8.2	726.2	3,453.4	3,392.1	61.33	56.313		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
8,600.0	6,547.2	5,676.4	5,577.0	82.1	18.5	74.68	8.2	726.2	3,502.3	3,438.3	64.00	54.719		
8,700.0	6,557.2	5,676.4	5,577.0	83.4	18.5	74.68	8.2	726.2	3,553.3	3,486.6	66.71	53.266		
8,800.0	6,567.1	5,676.4	5,577.0	84.9	18.5	74.68	8.2	726.2	3,606.4	3,537.0	69.44	51.939		
8,900.0	6,577.0	5,676.4	5,577.0	86.4	18.5	74.68	8.2	726.2	3,661.4	3,589.3	72.18	50.726		
9,000.0	6,587.0	5,676.4	5,577.0	88.0	18.5	74.68	8.2	726.2	3,718.4	3,643.4	74.94	49.616		
9,100.0	6,596.9	5,676.4	5,577.0	89.7	18.5	74.68	8.2	726.2	3,777.1	3,699.4	77.72	48.600		
9,200.0	6,606.8	5,687.3	5,587.3	91.5	18.6	74.89	7.9	729.5	3,837.4	3,756.8	80.59	47.615		
9,300.0	6,616.8	9,144.0	6,597.1	93.3	53.8	89.69	2,370.0	1,686.2	3,885.8	3,767.1	118.74	32.725		
9,400.0	6,626.7	9,244.0	6,607.0	95.3	55.3	89.69	2,469.5	1,686.2	3,885.8	3,762.3	123.42	31.483		
9,500.0	6,636.6	9,344.0	6,616.9	97.3	56.7	89.69	2,569.0	1,686.1	3,885.7	3,757.6	128.13	30.327		
9,600.0	6,646.6	9,444.0	6,626.9	99.4	58.2	89.69	2,668.5	1,686.1	3,885.7	3,752.8	132.85	29.250		
9,700.0	6,656.5	9,544.0	6,636.8	101.5	59.7	89.69	2,768.0	1,686.1	3,885.7	3,748.1	137.58	28.242		
9,800.0	6,666.4	9,644.0	6,646.7	103.7	61.3	89.69	2,867.5	1,686.1	3,885.6	3,743.3	142.33	27.300		
9,900.0	6,676.4	9,744.0	6,656.7	106.0	62.9	89.69	2,967.0	1,686.0	3,885.6	3,738.5	147.10	26.415		
10,000.0	6,686.3	9,844.0	6,666.6	108.3	64.5	89.69	3,066.5	1,686.0	3,885.6	3,733.7	151.87	25.585		
10,100.0	6,696.2	9,944.0	6,676.5	110.6	66.1	89.69	3,166.0	1,686.0	3,885.5	3,728.9	156.66	24.803		
10,200.0	6,706.2	10,044.0	6,686.4	113.0	67.8	89.69	3,265.5	1,685.9	3,885.5	3,724.1	161.45	24.066		
10,300.0	6,716.1	10,144.0	6,696.4	115.5	69.4	89.69	3,365.0	1,685.9	3,885.5	3,719.2	166.25	23.371		
10,400.0	6,726.0	10,244.0	6,706.3	117.9	71.1	89.69	3,464.5	1,685.9	3,885.4	3,714.4	171.07	22.713		
10,500.0	6,736.0	10,344.0	6,716.2	120.5	72.8	89.69	3,564.0	1,685.9	3,885.4	3,709.5	175.88	22.091		
10,600.0	6,745.9	10,444.0	6,726.2	123.0	74.5	89.69	3,663.5	1,685.8	3,885.4	3,704.7	180.71	21.501		
10,700.0	6,755.8	10,544.0	6,736.1	125.6	76.2	89.69	3,763.1	1,685.8	3,885.3	3,699.8	185.54	20.940		
10,800.0	6,765.8	10,644.0	6,746.0	128.2	78.0	89.69	3,862.6	1,685.8	3,885.3	3,694.9	190.38	20.408		
10,900.0	6,775.7	10,744.0	6,756.0	130.8	79.7	89.69	3,962.1	1,685.7	3,885.3	3,690.1	195.22	19.902		
11,000.0	6,785.6	10,844.0	6,765.9	133.4	81.5	89.69	4,061.6	1,685.7	3,885.2	3,685.2	200.07	19.419		
11,100.0	6,795.5	10,944.0	6,775.8	136.1	83.2	89.69	4,161.1	1,685.7	3,885.2	3,680.3	204.93	18.959		
11,200.0	6,805.5	11,044.0	6,785.8	138.8	85.0	89.69	4,260.6	1,685.7	3,885.2	3,675.4	209.78	18.520		
11,300.0	6,815.4	11,144.0	6,795.7	141.5	86.8	89.69	4,360.1	1,685.6	3,885.1	3,670.5	214.64	18.100		
11,400.0	6,825.3	11,244.0	6,805.6	144.2	88.6	89.69	4,459.6	1,685.6	3,885.1	3,665.6	219.51	17.699		
11,500.0	6,835.3	11,344.0	6,815.6	146.9	90.4	89.69	4,559.1	1,685.6	3,885.1	3,660.7	224.38	17.315		
11,600.0	6,845.2	11,444.0	6,825.5	149.7	92.2	89.69	4,658.6	1,685.5	3,885.1	3,655.8	229.25	16.947		
11,700.0	6,855.1	11,544.0	6,835.4	152.4	94.0	89.69	4,758.1	1,685.5	3,885.0	3,650.9	234.12	16.594		
11,800.0	6,865.1	11,644.0	6,845.4	155.2	95.8	89.69	4,857.6	1,685.5	3,885.0	3,646.0	239.00	16.255		
11,900.0	6,875.0	11,744.0	6,855.3	158.0	97.6	89.69	4,957.1	1,685.5	3,885.0	3,641.1	243.88	15.930		
12,000.0	6,884.9	11,844.0	6,865.2	160.8	99.4	89.69	5,056.6	1,685.4	3,884.9	3,636.2	248.76	15.617		
12,100.0	6,894.9	11,944.0	6,875.2	163.6	101.3	89.69	5,156.1	1,685.4	3,884.9	3,631.2	253.65	15.316		
12,200.0	6,904.8	12,044.0	6,885.1	166.4	103.1	89.69	5,255.6	1,685.4	3,884.9	3,626.3	258.54	15.026		
12,300.0	6,914.7	12,144.0	6,895.0	169.2	104.9	89.69	5,355.1	1,685.4	3,884.8	3,621.4	263.43	14.747		
12,400.0	6,924.7	12,244.0	6,905.0	172.0	106.8	89.69	5,454.6	1,685.3	3,884.8	3,616.5	268.32	14.478		
12,500.0	6,934.6	12,344.0	6,914.9	174.9	108.6	89.69	5,554.2	1,685.3	3,884.8	3,611.5	273.21	14.219		
12,600.0	6,944.5	12,444.0	6,924.8	177.7	110.4	89.69	5,653.7	1,685.3	3,884.7	3,606.6	278.11	13.968		
12,700.0	6,954.5	12,544.0	6,934.7	180.6	112.3	89.69	5,753.2	1,685.2	3,884.7	3,601.7	283.01	13.727		
12,800.0	6,964.4	12,644.0	6,944.7	183.4	114.1	89.69	5,852.7	1,685.2	3,884.7	3,596.8	287.90	13.493		
12,900.0	6,974.3	12,744.0	6,954.6	186.3	116.0	89.69	5,952.2	1,685.2	3,884.6	3,591.8	292.80	13.267		
12,985.5	6,982.8	12,829.5	6,963.1	188.8	117.6	89.69	6,037.2	1,685.2	3,884.6	3,587.6	297.00	13.080		
12,987.5	6,983.0	12,830.1	6,963.2	188.8	117.6	89.69	6,037.8	1,685.2	3,884.6	3,587.5	297.07	13.077		
12,987.9	6,983.1	12,830.1	6,963.2	188.9	117.6	89.69	6,037.8	1,685.2	3,884.6	3,587.5	297.08	13.076		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	1.0	1.0	0.0	0.0	24.50	54.6	24.9	60.1					
100.0	100.0	101.0	101.0	0.1	0.1	24.50	54.6	24.9	60.1	59.9	0.19	314.363		
200.0	200.0	201.0	201.0	0.3	0.3	24.50	54.6	24.9	60.1	59.4	0.64	93.757		
300.0	300.0	301.0	301.0	0.5	0.5	24.50	54.6	24.9	60.1	59.0	1.09	55.095		
400.0	400.0	401.0	401.0	0.8	0.8	24.50	54.6	24.9	60.1	58.5	1.54	39.009		
500.0	500.0	501.0	501.0	1.0	1.0	24.50	54.6	24.9	60.1	58.1	1.99	30.193		
600.0	600.0	601.0	601.0	1.2	1.2	24.50	54.6	24.9	60.1	57.6	2.44	24.628		
700.0	700.0	701.0	701.0	1.4	1.4	24.50	54.6	24.9	60.1	57.2	2.89	20.794		
800.0	800.0	801.0	801.0	1.7	1.7	24.50	54.6	24.9	60.1	56.7	3.34	17.994		
900.0	900.0	901.0	901.0	1.9	1.9	24.50	54.6	24.9	60.1	56.3	3.79	15.858		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.50	54.6	24.9	60.1	55.8	4.24	14.176		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.50	54.6	24.9	60.1	55.4	4.69	12.816		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.50	54.6	24.9	60.1	54.9	5.14	11.694		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.50	54.6	24.9	60.1	54.5	5.59	10.753		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.50	54.6	24.9	60.1	54.0	6.03	9.952		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.50	54.6	24.9	60.1	53.6	6.48	9.262		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.50	54.6	24.9	60.1	53.1	6.93	8.662		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.50	54.6	24.9	60.1	52.7	7.38	8.134		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.50	54.6	24.9	60.1	52.2	7.83	7.667		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.50	54.6	24.9	60.1	51.8	8.28	7.251		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.50	54.6	24.9	60.1	51.3	8.73	6.878		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.50	54.6	24.9	60.1	50.9	9.18	6.541		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.50	54.6	24.9	60.1	50.4	9.63	6.236		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.50	54.6	24.9	60.1	50.0	10.08	5.958		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.50	54.6	24.9	60.1	49.5	10.53	5.703		
2,466.3	2,466.3	2,467.3	2,467.3	5.4	5.4	24.50	54.6	24.9	60.1	49.2	10.83	5.546 CC		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.50	54.6	24.9	60.1	49.1	10.98	5.470 ES		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	117.42	54.6	26.7	61.6	50.2	11.40	5.403 SF		
2,700.0	2,699.8	2,698.3	2,698.2	5.9	5.9	125.14	54.6	31.8	67.0	55.2	11.80	5.683		
2,800.0	2,799.5	2,795.2	2,794.7	6.1	6.1	135.13	54.6	40.1	78.3	66.1	12.19	6.422		
2,900.0	2,898.7	2,890.0	2,888.8	6.4	6.3	144.64	54.6	51.4	96.9	84.3	12.58	7.706		
3,000.0	2,997.5	2,982.2	2,980.0	6.7	6.5	152.29	54.6	65.4	123.3	110.3	12.94	9.523		
3,100.0	3,095.6	3,071.2	3,067.5	7.0	6.8	157.97	54.6	81.7	157.0	143.7	13.29	11.813		
3,200.0	3,193.1	3,156.6	3,150.9	7.5	7.0	162.08	54.6	99.8	197.6	184.0	13.62	14.506		
3,300.0	3,289.6	3,238.1	3,229.9	8.0	7.3	165.06	54.6	119.5	244.5	230.5	13.94	17.540		
3,400.0	3,385.3	3,315.2	3,304.3	8.7	7.5	167.24	54.6	140.1	297.2	282.9	14.24	20.867		
3,500.0	3,479.8	3,387.9	3,373.8	9.4	7.8	168.86	54.6	161.4	355.1	340.6	14.53	24.443		
3,600.0	3,573.2	3,456.1	3,438.4	10.3	8.1	170.07	54.6	183.0	418.0	403.2	14.81	28.225		
3,700.0	3,665.2	3,519.5	3,498.2	11.3	8.4	170.99	54.6	204.4	485.4	470.3	15.07	32.206		
3,800.0	3,755.8	3,578.4	3,553.1	12.5	8.7	171.69	54.6	225.5	556.9	541.6	15.33	36.335		
3,871.4	3,819.6	3,617.6	3,589.5	13.4	8.9	172.07	54.6	240.2	610.3	594.8	15.50	39.362		
3,900.0	3,845.0	3,632.7	3,603.4	13.8	9.0	172.30	54.6	245.9	632.1	616.5	15.61	40.486		
4,000.0	3,933.8	3,684.2	3,650.8	15.1	9.3	172.98	54.6	266.2	709.1	693.1	15.99	44.340		
4,100.0	4,022.5	3,733.5	3,695.7	16.5	9.6	173.54	54.6	286.4	787.3	770.9	16.38	48.067		
4,200.0	4,111.3	3,787.6	3,744.7	18.0	10.0	174.06	54.6	309.3	866.4	849.6	16.78	51.638		
4,300.0	4,200.0	3,848.3	3,799.7	19.4	10.4	174.56	54.6	335.1	945.7	928.5	17.19	55.007		
4,400.0	4,288.8	3,909.1	3,854.7	20.9	10.8	174.98	54.6	360.9	1,025.0	1,007.4	17.61	58.201		
4,500.0	4,377.6	3,969.8	3,909.7	22.4	11.3	175.34	54.6	386.8	1,104.3	1,086.3	18.04	61.216		
4,600.0	4,466.3	4,030.6	3,964.7	23.8	11.7	175.65	54.6	412.6	1,183.6	1,165.2	18.47	64.069		
4,700.0	4,555.1	4,091.4	4,019.7	25.3	12.2	175.92	54.6	438.4	1,263.0	1,244.1	18.92	66.768		
4,800.0	4,643.8	4,152.1	4,074.7	26.8	12.6	176.16	54.6	464.2	1,342.3	1,323.0	19.36	69.319		
4,900.0	4,732.6	4,212.9	4,129.7	28.4	13.1	176.38	54.6	490.1	1,421.7	1,401.9	19.82	71.738		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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	4,821.4	4,273.6	4,184.7	29.9	13.6	176.57	54.6	515.9	1,501.1	1,480.8	20.28	74.027		
5,100.0	4,910.1	4,334.4	4,239.7	31.4	14.1	176.74	54.6	541.7	1,580.4	1,559.7	20.74	76.197		
5,200.0	4,998.9	4,395.2	4,294.7	32.9	14.6	176.90	54.6	567.6	1,659.8	1,638.6	21.21	78.257		
5,300.0	5,087.6	4,455.9	4,349.7	34.5	15.1	177.04	54.6	593.4	1,739.2	1,717.5	21.68	80.208		
5,400.0	5,176.4	4,516.7	4,404.7	36.0	15.6	177.17	54.6	619.2	1,818.6	1,796.4	22.16	82.064		
5,500.0	5,265.1	4,577.4	4,459.7	37.5	16.1	177.29	54.6	645.0	1,898.0	1,875.3	22.64	83.827		
5,600.0	5,353.9	4,638.2	4,514.7	39.1	16.6	177.39	54.6	670.9	1,977.4	1,954.3	23.13	85.503		
5,700.0	5,442.7	4,699.0	4,569.7	40.6	17.1	177.50	54.6	696.7	2,056.8	2,033.2	23.61	87.100		
5,800.0	5,531.4	4,759.7	4,624.7	42.2	17.6	177.59	54.6	722.5	2,136.2	2,112.1	24.11	88.617		
5,900.0	5,620.2	4,820.5	4,679.7	43.7	18.2	177.67	54.6	748.4	2,215.6	2,191.0	24.60	90.065		
6,000.0	5,708.9	4,881.2	4,734.7	45.3	18.7	177.75	54.6	774.2	2,295.0	2,269.9	25.10	91.445		
6,037.9	5,742.6	4,904.3	4,755.5	45.8	18.9	177.78	54.6	784.0	2,325.1	2,299.8	25.29	91.953		
6,050.0	5,753.3	4,911.5	4,762.1	46.0	18.9	177.74	54.6	787.1	2,334.7	2,309.5	25.25	92.464		
6,100.0	5,796.4	4,939.8	4,787.7	46.9	19.2	177.54	54.6	799.1	2,375.9	2,350.9	25.07	94.782		
6,150.0	5,837.6	4,965.2	4,810.6	47.9	19.4	177.28	54.6	809.9	2,419.0	2,394.2	24.83	97.408		
6,200.0	5,876.8	4,987.4	4,830.8	48.9	19.6	176.93	54.6	819.3	2,463.8	2,439.2	24.57	100.295		
6,250.0	5,913.7	5,006.5	4,848.1	50.1	19.8	176.43	54.6	827.4	2,510.0	2,485.7	24.29	103.345		
6,300.0	5,948.2	5,022.3	4,862.4	51.4	19.9	175.68	54.6	834.2	2,557.4	2,533.3	24.05	106.323		
6,350.0	5,980.1	5,034.8	4,873.7	52.7	20.0	174.44	54.6	839.5	2,605.8	2,581.8	23.99	108.600		
6,400.0	6,009.2	5,043.9	4,881.9	54.1	20.1	172.02	54.6	843.3	2,654.9	2,630.3	24.58	108.017		
6,445.1	6,032.9	5,049.1	4,886.6	55.4	20.1	166.52	54.6	845.5	2,699.7	2,672.0	27.72	97.389		
6,500.0	6,060.4	5,053.7	4,890.8	57.1	20.2	166.78	54.6	847.5	2,754.4	2,726.4	27.99	98.410		
6,595.1	6,107.9	5,061.8	4,898.1	59.9	20.2	167.20	54.6	850.9	2,849.1	2,820.6	28.46	100.114		
6,600.0	6,110.4	5,062.2	4,898.4	60.1	20.2	161.71	54.6	851.1	2,854.0	2,821.1	32.93	86.667		
6,650.0	6,135.6	5,066.6	4,902.5	61.3	20.3	126.20	54.6	853.0	2,903.7	2,839.2	64.48	45.032		
6,700.0	6,160.8	5,071.4	4,906.8	62.6	20.3	110.96	54.6	855.0	2,952.8	2,879.2	73.62	40.111		
6,750.0	6,186.0	5,076.5	4,911.4	63.8	20.4	102.23	54.6	857.2	3,001.1	2,924.4	76.68	39.139		
6,800.0	6,210.9	5,081.8	4,916.2	64.9	20.4	96.08	54.6	859.4	3,048.2	2,970.7	77.53	39.319		
6,850.0	6,235.4	5,087.4	4,921.2	66.0	20.5	91.22	54.6	861.8	3,093.9	3,016.7	77.17	40.094		
6,900.0	6,259.2	5,093.1	4,926.4	67.1	20.5	87.14	54.6	864.2	3,137.8	3,061.8	75.95	41.312		
6,950.0	6,282.2	5,099.0	4,931.8	68.0	20.6	83.61	54.6	866.7	3,179.7	3,105.6	74.05	42.939		
7,000.0	6,304.2	5,105.0	4,937.2	68.9	20.6	80.51	54.6	869.3	3,219.4	3,147.8	71.55	44.992		
7,050.0	6,325.0	5,111.0	4,942.6	69.7	20.7	77.77	54.6	871.8	3,256.6	3,188.0	68.53	47.519		
7,100.0	6,344.5	5,117.0	4,948.0	70.4	20.7	75.35	54.6	874.4	3,291.1	3,226.1	65.05	50.590		
7,150.0	6,362.5	5,122.9	4,953.4	71.0	20.8	73.22	54.6	876.9	3,322.8	3,261.6	61.19	54.303		
7,200.0	6,379.0	5,128.8	4,958.8	71.6	20.8	71.37	54.6	879.4	3,351.6	3,294.6	57.02	58.775		
7,250.0	6,393.6	5,134.6	4,964.0	72.0	20.9	69.78	54.6	881.9	3,377.2	3,324.5	52.65	64.144		
7,300.0	6,406.4	5,140.1	4,969.0	72.4	20.9	68.45	54.6	884.2	3,399.6	3,351.4	48.19	70.541		
7,350.0	6,417.3	5,145.5	4,973.8	72.7	21.0	67.35	54.6	886.5	3,418.6	3,374.8	43.81	78.034		
7,400.0	6,426.2	5,150.5	4,978.4	73.0	21.0	66.49	54.6	888.6	3,434.2	3,394.5	39.71	86.482		
7,450.0	6,432.9	5,155.3	4,982.7	73.2	21.1	65.86	54.6	890.7	3,446.3	3,410.1	36.18	95.242		
7,466.6	6,434.7	5,156.8	4,984.1	73.2	21.1	65.69	54.6	891.3	3,449.5	3,414.3	35.20	97.989		
7,500.0	6,438.0	5,159.8	4,986.8	73.3	21.1	65.75	54.6	892.6	3,455.7	3,419.9	35.85	96.406		
7,600.0	6,447.9	5,168.8	4,995.0	73.7	21.2	65.90	54.6	896.4	3,476.3	3,438.6	37.71	92.182		
7,700.0	6,457.9	5,177.8	5,003.1	74.2	21.3	66.05	54.6	900.2	3,499.5	3,459.8	39.74	88.058		
7,800.0	6,467.8	5,186.8	5,011.2	74.8	21.3	66.20	54.6	904.1	3,525.5	3,483.6	41.90	84.133		
7,900.0	6,477.7	5,195.8	5,019.4	75.4	21.4	66.35	54.6	907.9	3,554.0	3,509.8	44.17	80.455		
8,000.0	6,487.7	5,204.8	5,027.5	76.1	21.5	66.50	54.6	911.7	3,585.1	3,538.5	46.53	77.046		
8,100.0	6,497.6	5,213.8	5,035.7	76.9	21.6	66.65	54.6	915.5	3,618.6	3,569.6	48.96	73.906		
8,200.0	6,507.5	5,222.8	5,043.8	77.7	21.7	66.80	54.6	919.4	3,654.6	3,603.1	51.45	71.027		
8,300.0	6,517.5	5,231.8	5,051.9	78.7	21.7	66.95	54.6	923.2	3,692.8	3,638.8	53.99	68.393		
8,400.0	6,527.4	5,240.7	5,060.1	79.7	21.8	67.11	54.6	927.0	3,733.4	3,676.8	56.58	65.986		

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 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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		
8,500.0	6,537.3	5,249.7	5,068.2	80.9	21.9	67.26	54.6	930.8	3,776.1	3,716.9	59.20	63.786		
8,600.0	6,547.2	5,258.7	5,076.3	82.1	22.0	67.41	54.6	934.6	3,821.0	3,759.1	61.85	61.775		
8,700.0	6,557.2	5,267.7	5,084.5	83.4	22.0	67.56	54.6	938.5	3,867.9	3,803.4	64.54	59.935		
8,800.0	6,567.1	5,276.7	5,092.6	84.9	22.1	67.71	54.6	942.3	3,916.8	3,849.5	67.24	58.250		
8,900.0	6,577.0	5,285.7	5,100.8	86.4	22.2	67.86	54.6	946.1	3,967.6	3,897.6	69.97	56.704		
9,000.0	6,587.0	5,294.7	5,108.9	88.0	22.3	68.01	54.6	949.9	4,020.2	3,947.4	72.72	55.284		
9,100.0	6,596.9	5,303.7	5,117.0	89.7	22.4	68.16	54.6	953.8	4,074.5	3,999.0	75.48	53.979		
9,200.0	6,606.8	5,312.7	5,125.2	91.5	22.4	68.31	54.6	957.6	4,130.6	4,052.3	78.27	52.776		
9,300.0	6,616.8	5,321.7	5,133.3	93.3	22.5	68.46	54.6	961.4	4,188.2	4,107.2	81.06	51.666		
9,400.0	6,626.7	5,330.7	5,141.5	95.3	22.6	68.61	54.6	965.2	4,247.4	4,163.6	83.87	50.641		
9,500.0	6,636.6	5,339.7	5,149.6	97.3	22.7	68.76	54.6	969.0	4,308.1	4,221.4	86.70	49.691		
9,600.0	6,646.6	5,348.6	5,157.7	99.4	22.8	68.92	54.6	972.9	4,370.3	4,280.7	89.53	48.812		
9,700.0	6,656.5	5,357.6	5,165.8	101.5	22.9	69.07	54.6	976.7	4,432.5	4,340.9	92.36	47.933		
9,800.0	6,666.4	5,366.6	5,173.9	103.7	23.0	69.22	54.6	980.5	4,494.7	4,403.1	95.22	47.054		
9,900.0	6,676.4	5,375.6	5,182.0	106.0	23.1	69.37	54.6	984.3	4,556.9	4,465.3	98.11	46.175		
10,000.0	6,686.3	5,384.6	5,190.1	108.3	23.2	69.52	54.6	988.1	4,619.1	4,527.5	101.02	45.296		
10,100.0	6,696.2	5,393.6	5,198.2	110.6	23.3	69.67	54.6	991.9	4,681.3	4,589.7	103.95	44.417		
10,200.0	6,706.2	5,402.6	5,206.3	113.0	23.4	69.82	54.6	995.7	4,743.5	4,651.9	106.90	43.538		
10,300.0	6,716.1	5,411.6	5,214.4	115.5	23.5	69.97	54.6	999.5	4,805.7	4,714.1	109.87	42.659		
10,400.0	6,726.0	5,420.6	5,222.5	117.9	23.6	70.12	54.6	1003.3	4,867.9	4,776.3	112.86	41.780		
10,500.0	6,736.0	5,429.6	5,230.6	120.5	23.7	70.27	54.6	1007.1	4,930.1	4,838.5	115.87	40.901		
10,600.0	6,745.9	5,438.6	5,238.7	123.0	23.8	70.42	54.6	1010.9	4,992.3	4,900.7	118.90	40.022		
10,700.0	6,755.8	5,447.6	5,246.8	125.6	23.9	70.57	54.6	1014.7	5,054.5	4,962.9	122.00	39.143		
10,800.0	6,765.8	5,456.6	5,254.9	128.2	24.0	70.72	54.6	1018.5	5,116.7	5,025.1	125.13	38.264		
10,900.0	6,775.7	5,465.6	5,263.0	130.8	24.1	70.87	54.6	1022.3	5,178.9	5,087.3	128.28	37.385		
11,000.0	6,785.6	5,474.6	5,271.1	133.4	24.2	71.02	54.6	1026.1	5,241.1	5,149.5	131.45	36.506		
11,100.0	6,795.5	5,483.6	5,279.2	136.1	24.3	71.17	54.6	1029.9	5,303.3	5,211.7	134.64	35.627		
11,200.0	6,805.5	5,492.6	5,287.3	138.8	24.4	71.32	54.6	1033.7	5,365.5	5,273.9	137.85	34.748		
11,300.0	6,815.4	5,501.6	5,295.4	141.5	24.5	71.47	54.6	1037.5	5,427.7	5,336.1	141.08	33.869		
11,400.0	6,825.3	5,510.6	5,303.5	144.2	24.6	71.62	54.6	1041.3	5,489.9	5,398.3	144.33	32.990		
11,500.0	6,835.3	5,519.6	5,311.6	146.9	24.7	71.77	54.6	1045.1	5,552.1	5,460.5	147.60	32.111		
11,600.0	6,845.2	5,528.6	5,319.7	149.7	24.8	71.92	54.6	1048.9	5,614.3	5,522.7	150.87	31.232		
11,700.0	6,855.1	5,537.6	5,327.8	152.4	24.9	72.07	54.6	1052.7	5,676.5	5,584.9	154.17	30.353		
11,800.0	6,865.1	5,546.6	5,335.9	155.2	25.0	72.22	54.6	1056.5	5,738.7	5,647.1	157.48	29.474		
11,900.0	6,875.0	5,555.6	5,344.0	158.0	25.1	72.37	54.6	1060.3	5,800.9	5,709.3	160.81	28.595		
12,000.0	6,884.9	5,564.6	5,352.1	160.8	25.2	72.52	54.6	1064.1	5,863.1	5,771.5	164.15	27.716		
12,100.0	6,894.9	5,573.6	5,360.2	163.6	25.3	72.67	54.6	1067.9	5,925.3	5,833.7	167.50	26.837		
12,200.0	6,904.8	5,582.6	5,368.3	166.4	25.4	72.82	54.6	1071.7	5,987.5	5,895.9	170.87	25.958		
12,300.0	6,914.7	5,591.6	5,376.4	169.2	25.5	72.97	54.6	1075.5	6,049.7	5,958.1	174.25	25.079		
12,400.0	6,924.7	5,600.6	5,384.5	172.0	25.6	73.12	54.6	1079.3	6,111.9	6,020.3	177.64	24.200		
12,500.0	6,934.6	5,609.6	5,392.6	174.9	25.7	73.27	54.6	1083.1	6,174.1	6,082.5	181.05	23.321		
12,600.0	6,944.5	5,618.6	5,400.7	177.7	25.8	73.42	54.6	1086.9	6,236.3	6,144.7	184.47	22.442		
12,700.0	6,954.5	5,627.6	5,408.8	180.6	25.9	73.57	54.6	1090.7	6,298.5	6,206.9	187.90	21.563		
12,800.0	6,964.4	5,636.6	5,416.9	183.4	26.0	73.72	54.6	1094.5	6,360.7	6,269.1	191.35	20.684		
12,900.0	6,974.3	5,645.6	5,425.0	186.3	26.1	73.87	54.6	1098.3	6,422.9	6,331.3	194.82	19.805		
12,987.5	6,983.0	5,654.6	5,433.1	188.8	26.2	74.02	54.6	1102.1	6,485.1	6,393.5	198.30	18.926		
12,987.9	6,983.1	5,654.7	5,433.2	188.9	26.2	74.03	54.6	1102.2	6,485.2	6,393.6	198.31	18.927		

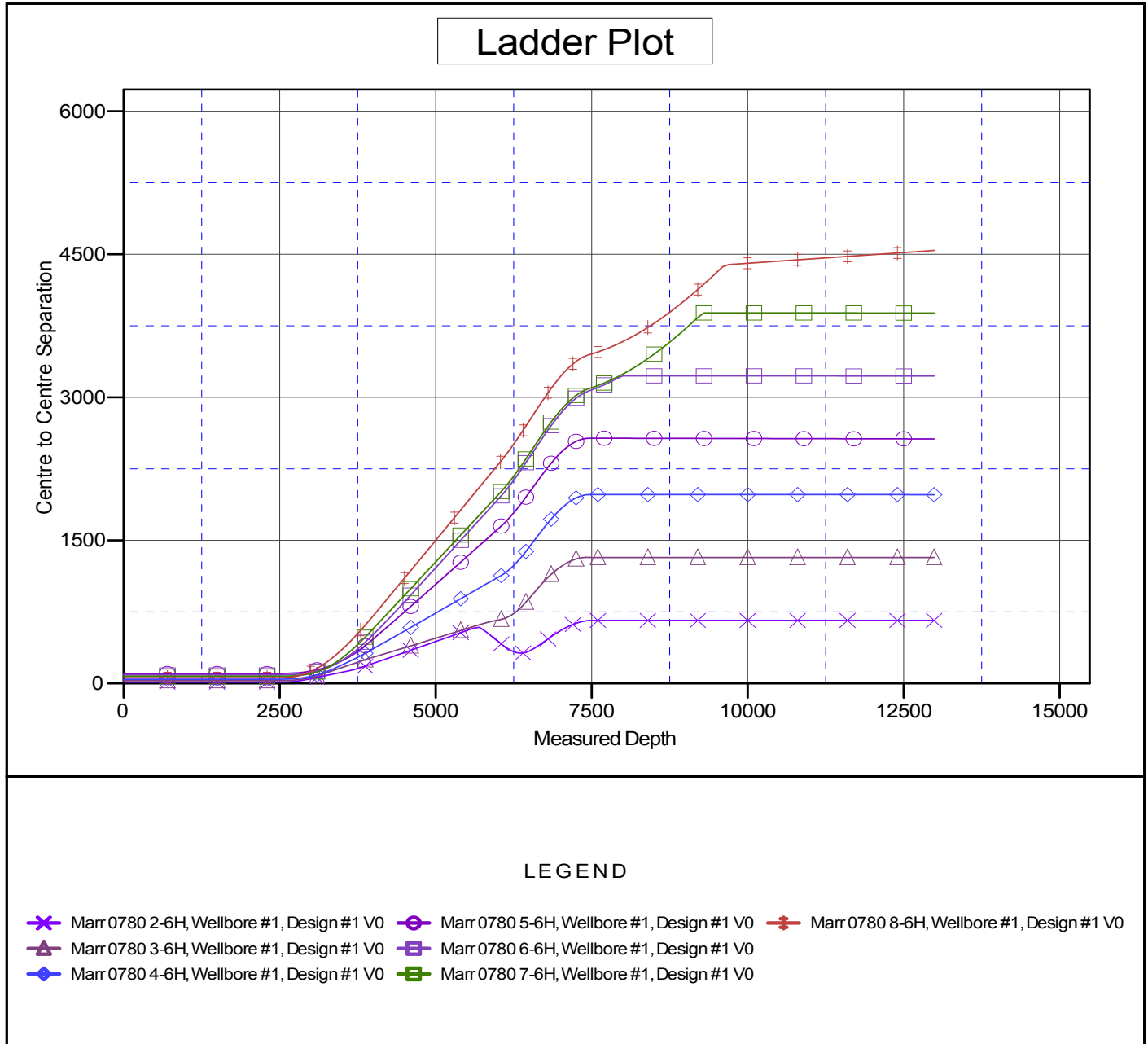
SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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 Depths are relative to KB @ 8145.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Marr 0780 1-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.59°



SandRidge Energy

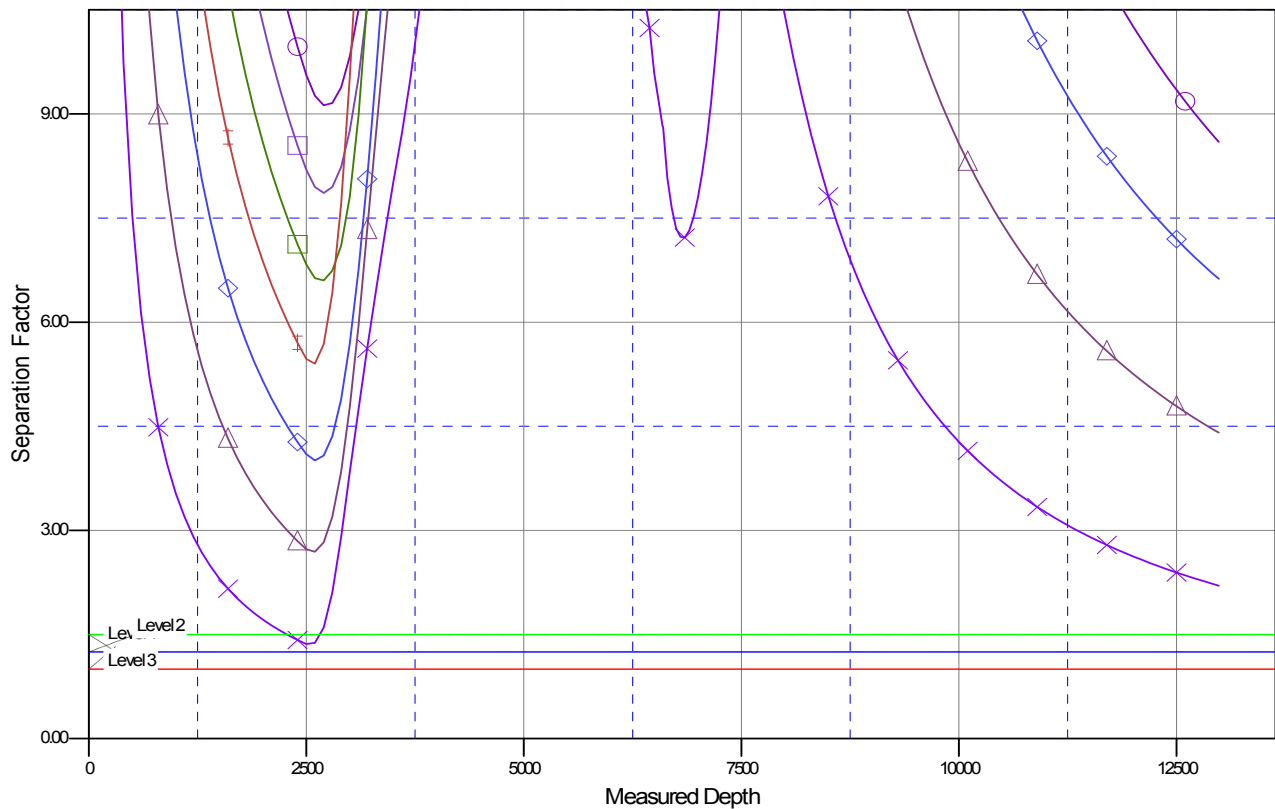
Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 1-6H
Project:	North Park Basin	TVD Reference:	KB @ 8145.0usft
Reference Site:	T7N-R80W-S7	MD Reference:	KB @ 8145.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 1-6H	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 Depths are relative to KB @ 8145.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: Marr 0780 1-6H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: -0.59°

Separation Factor Plot



LEGEND

- ✕ Marr 0780 2-6H, Wellbore #1, Design #1 V0
- ⊕ Marr 0780 3-6H, Wellbore #1, Design #1 V0
- ⊖ Marr 0780 4-6H, Wellbore #1, Design #1 V0
- ⊗ Marr 0780 5-6H, Wellbore #1, Design #1 V0
- ⊙ Marr 0780 6-6H, Wellbore #1, Design #1 V0
- ⊚ Marr 0780 7-6H, Wellbore #1, Design #1 V0
- ⊛ Marr 0780 8-6H, Wellbore #1, Design #1 V0