

SandRidge Energy

North Park Basin

T7N-R80W-S7

Marr 0780 2-6H

Wellbore #1

Design #1

Anticollision Report

09 May, 2016

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	12,839.6	Design #1 (Wellbore #1)	Sperry MWD	Fixed:v2:standard declination

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
T7N-R80W-S7						
Marr 0780 1-6H - Wellbore #1 - Design #1	2,500.0	2,500.0	15.0	4.0	1.363	Level 3, CC, ES, SF
Marr 0780 3-6H - Wellbore #1 - Design #1	2,900.0	2,900.0	15.0	2.2	1.174	Level 2, CC
Marr 0780 3-6H - Wellbore #1 - Design #1	5,602.7	5,613.4	34.1	1.4	1.044	Level 2, ES, SF
Marr 0780 4-6H - Wellbore #1 - Design #1	2,900.0	2,900.0	30.0	17.2	2.350	CC, ES
Marr 0780 4-6H - Wellbore #1 - Design #1	3,000.0	3,000.0	30.9	17.7	2.340	SF
Marr 0780 5-6H - Wellbore #1 - Design #1	2,900.0	2,901.2	90.0	77.3	7.046	CC, ES
Marr 0780 5-6H - Wellbore #1 - Design #1	3,100.0	3,101.0	93.7	80.0	6.873	SF
Marr 0780 6-6H - Wellbore #1 - Design #1	2,900.0	2,901.1	75.0	62.2	5.871	CC, ES
Marr 0780 6-6H - Wellbore #1 - Design #1	3,000.0	3,001.1	75.9	62.7	5.745	SF
Marr 0780 7-6H - Wellbore #1 - Design #1	2,866.3	2,867.3	60.0	47.4	4.755	CC
Marr 0780 7-6H - Wellbore #1 - Design #1	2,900.0	2,901.0	60.0	47.3	4.699	ES
Marr 0780 7-6H - Wellbore #1 - Design #1	3,000.0	3,000.0	61.6	48.4	4.667	SF
Marr 0780 8-6H - Wellbore #1 - Design #1	2,466.3	2,467.3	45.1	34.3	4.164	CC
Marr 0780 8-6H - Wellbore #1 - Design #1	2,500.0	2,501.0	45.1	34.1	4.107	ES
Marr 0780 8-6H - Wellbore #1 - Design #1	2,600.0	2,600.0	45.9	34.4	4.018	SF

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-155.61	-13.6	-6.2	15.0				
100.0	100.0	100.0	100.0	0.1	0.1	-155.61	-13.6	-6.2	15.0	14.8	0.19	79.265	
200.0	200.0	200.0	200.0	0.3	0.3	-155.61	-13.6	-6.2	15.0	14.3	0.64	23.445	
300.0	300.0	300.0	300.0	0.5	0.5	-155.61	-13.6	-6.2	15.0	13.9	1.09	13.757	
400.0	400.0	400.0	400.0	0.8	0.8	-155.61	-13.6	-6.2	15.0	13.4	1.54	9.734	
500.0	500.0	500.0	500.0	1.0	1.0	-155.61	-13.6	-6.2	15.0	13.0	1.99	7.532	
600.0	600.0	600.0	600.0	1.2	1.2	-155.61	-13.6	-6.2	15.0	12.5	2.44	6.142	
700.0	700.0	700.0	700.0	1.4	1.4	-155.61	-13.6	-6.2	15.0	12.1	2.89	5.186	
800.0	800.0	800.0	800.0	1.7	1.7	-155.61	-13.6	-6.2	15.0	11.6	3.34	4.487	
900.0	900.0	900.0	900.0	1.9	1.9	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-13.6	-6.2	15.0	9.8	5.13	2.915	

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

SandRidge Energy

Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Marr 0780 2-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-155.61	-13.6	-6.2	15.0	9.4	5.58	2.680		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-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	-155.61	-13.6	-6.2	15.0	4.0	10.98	1.363	Level 3, CC, ES, SF	
2,600.0	2,600.0	2,599.7	2,599.7	5.7	5.7	-149.85	-13.6	-7.9	15.8	4.4	11.41	1.381	Level 3	
2,700.0	2,700.0	2,699.2	2,699.1	5.9	5.9	-136.12	-13.6	-13.1	18.9	7.1	11.84	1.599	Level 4	
2,800.0	2,800.0	2,798.3	2,797.7	6.2	6.1	-122.14	-13.6	-21.7	25.7	13.4	12.29	2.093		
2,900.0	2,900.0	2,896.6	2,895.3	6.4	6.4	-112.09	-13.6	-33.6	36.5	23.8	12.77	2.863		
3,000.0	3,000.0	2,994.2	2,991.8	6.6	6.7	-10.98	-13.6	-48.7	49.5	36.4	13.10	3.783		
3,100.0	3,099.8	3,091.5	3,087.3	6.8	7.0	-7.18	-13.6	-67.0	62.7	49.3	13.48	4.655		
3,200.0	3,199.5	3,188.2	3,181.6	7.0	7.4	-4.51	-13.6	-88.4	76.0	62.1	13.85	5.484		
3,300.0	3,298.7	3,284.5	3,274.8	7.2	7.9	-2.46	-13.6	-112.9	89.2	74.9	14.22	6.270		
3,400.0	3,397.5	3,380.5	3,366.7	7.5	8.5	-0.80	-13.6	-140.4	102.3	87.7	14.58	7.015		
3,500.0	3,495.6	3,475.9	3,457.2	7.7	9.2	0.61	-13.6	-170.8	115.4	100.4	14.94	7.720		
3,600.0	3,593.1	3,571.0	3,546.3	8.0	10.0	1.85	-13.6	-204.1	128.3	113.0	15.31	8.383		
3,611.2	3,603.9	3,581.7	3,556.1	8.0	10.1	1.98	-13.6	-208.0	129.7	114.4	15.35	8.454		
3,700.0	3,690.0	3,665.5	3,633.6	8.3	11.0	2.94	-13.6	-240.0	142.5	126.7	15.74	9.052		
3,800.0	3,786.9	3,759.0	3,718.9	8.6	12.0	3.85	-13.6	-278.4	159.9	143.7	16.20	9.874		
3,900.0	3,883.9	3,851.4	3,801.8	9.0	13.1	4.58	-13.6	-319.0	180.6	163.9	16.66	10.837		
4,000.0	3,980.8	3,947.4	3,887.1	9.4	14.4	5.18	-13.6	-363.2	203.4	186.3	17.15	11.859		
4,100.0	4,077.7	4,044.7	3,973.5	9.8	15.8	5.67	-13.6	-408.1	226.4	208.7	17.66	12.819		
4,200.0	4,174.7	4,142.0	4,059.8	10.2	17.1	6.07	-13.6	-452.9	249.4	231.2	18.18	13.716		
4,300.0	4,271.6	4,239.4	4,146.2	10.6	18.5	6.40	-13.6	-497.7	272.3	253.6	18.71	14.555		
4,400.0	4,368.5	4,336.7	4,232.6	11.0	19.9	6.68	-13.6	-542.5	295.3	276.1	19.25	15.339		
4,500.0	4,465.5	4,434.0	4,319.0	11.4	21.4	6.92	-13.6	-587.4	318.3	298.5	19.81	16.071		
4,600.0	4,562.4	4,531.3	4,405.3	11.9	22.8	7.12	-13.6	-632.2	341.3	320.9	20.37	16.757		
4,700.0	4,659.3	4,628.6	4,491.7	12.3	24.3	7.30	-13.6	-677.0	364.3	343.4	20.94	17.398		
4,800.0	4,756.3	4,725.9	4,578.1	12.8	25.7	7.46	-13.6	-721.8	387.3	365.8	21.52	17.999		
4,900.0	4,853.2	4,823.2	4,664.5	13.3	27.2	7.60	-13.6	-766.7	410.3	388.2	22.10	18.562		
5,000.0	4,950.1	4,920.6	4,750.8	13.7	28.7	7.73	-13.6	-811.5	433.3	410.6	22.70	19.091		
5,100.0	5,047.1	5,017.9	4,837.2	14.2	30.2	7.84	-13.6	-856.3	456.3	433.0	23.30	19.587		
5,200.0	5,144.0	5,115.2	4,923.6	14.7	31.6	7.95	-13.6	-901.1	479.3	455.4	23.90	20.054		
5,300.0	5,240.9	5,212.5	5,010.0	15.2	33.1	8.04	-13.6	-946.0	502.3	477.8	24.51	20.493		
5,400.0	5,337.9	5,309.8	5,096.3	15.6	34.6	8.12	-13.6	-990.8	525.3	500.2	25.13	20.907		
5,500.0	5,434.8	5,407.1	5,182.7	16.1	36.1	8.20	-13.6	-1,035.6	548.4	522.6	25.75	21.297		
5,602.7	5,534.4	5,507.1	5,271.5	16.6	37.6	8.28	-13.6	-1,081.7	572.0	545.6	26.39	21.676		
5,650.0	5,579.8	5,553.4	5,312.6	16.9	38.4	8.22	-13.6	-1,103.0	581.4	554.7	26.61	21.845		
5,700.0	5,626.8	5,603.0	5,356.5	17.2	39.1	8.25	-13.6	-1,125.8	588.0	561.2	26.80	21.935		
5,750.0	5,672.4	5,652.8	5,400.8	17.6	39.9	8.36	-13.6	-1,148.8	591.1	564.2	26.95	21.932		
5,800.0	5,716.6	5,702.8	5,445.1	18.0	40.7	8.57	-13.6	-1,171.8	590.8	563.8	27.06	21.834		
5,850.0	5,759.0	5,752.6	5,489.3	18.5	41.4	8.86	-13.6	-1,194.7	587.1	560.0	27.14	21.634		
5,900.0	5,799.4	5,801.9	5,533.1	19.0	42.2	9.26	-13.6	-1,217.5	580.0	552.8	27.20	21.324		
5,950.0	5,837.7	5,850.7	5,576.4	19.6	42.9	9.78	-13.6	-1,239.9	569.5	542.2	27.26	20.889		

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

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

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,000.0	5,873.7	5,898.5	5,618.9	20.3	43.7	10.44	-13.6	-1,262.0	555.7	528.3	27.36	20.309		
6,050.0	5,907.1	5,945.3	5,660.4	21.0	44.4	11.26	-13.6	-1,283.5	538.7	511.1	27.54	19.561		
6,100.0	5,937.9	5,990.7	5,700.6	21.8	45.1	12.29	-13.6	-1,304.4	518.5	490.6	27.85	18.617		
6,150.0	5,965.8	6,034.5	5,739.5	22.6	45.8	13.57	-13.6	-1,324.6	495.3	466.9	28.39	17.448		
6,174.9	5,978.7	6,050.0	5,753.3	23.1	46.0	14.19	-13.6	-1,331.8	482.8	454.2	28.67	16.840		
6,200.0	5,991.2	6,061.5	5,763.3	23.5	46.2	14.46	-13.6	-1,337.4	470.3	441.3	29.02	16.208		
6,300.0	6,041.2	6,115.7	5,809.6	25.4	47.2	15.78	-13.6	-1,365.7	424.6	393.9	30.69	13.834		
6,324.9	6,053.7	6,129.9	5,821.3	25.8	47.5	16.13	-13.6	-1,373.7	414.4	383.2	31.16	13.296		
6,350.0	6,066.3	6,150.0	5,837.6	26.3	47.9	14.04	-13.6	-1,385.4	404.5	373.6	30.93	13.078		
6,400.0	6,091.6	6,174.5	5,857.2	27.2	48.4	9.31	-13.6	-1,400.3	385.7	355.7	30.06	12.830		
6,450.0	6,117.2	6,200.0	5,876.8	28.1	48.9	4.42	-13.6	-1,416.4	368.6	339.4	29.21	12.618		
6,500.0	6,142.8	6,237.0	5,904.4	28.9	49.8	-0.97	-13.6	-1,441.1	353.0	324.7	28.38	12.440		
6,550.0	6,168.2	6,268.7	5,926.9	29.8	50.6	-6.58	-13.6	-1,463.4	339.7	311.9	27.82	12.214		
6,600.0	6,193.2	6,300.0	5,948.2	30.7	51.4	-12.37	-13.6	-1,486.3	329.1	301.3	27.74	11.864		
6,650.0	6,217.7	6,330.9	5,968.2	31.5	52.2	-18.22	-13.6	-1,509.8	321.8	293.5	28.28	11.379		
6,700.0	6,241.3	6,360.5	5,986.5	32.3	53.0	-23.88	-13.6	-1,533.2	318.5	289.1	29.34	10.854		
6,710.2	6,246.1	6,366.4	5,990.0	32.4	53.2	-24.99	-13.6	-1,538.0	318.4	288.8	29.60	10.755		
6,750.0	6,264.1	6,388.7	6,002.9	33.0	53.8	-29.13	-13.6	-1,556.1	320.0	289.3	30.67	10.432		
6,800.0	6,285.7	6,415.0	6,017.4	33.7	54.6	-33.77	-13.6	-1,578.1	326.8	294.9	31.95	10.230		
6,850.0	6,306.1	6,445.1	6,032.9	34.3	55.4	-38.34	-13.6	-1,603.8	339.3	306.1	33.26	10.203		
6,900.0	6,325.0	6,468.3	6,044.5	34.9	56.1	-41.45	-13.6	-1,623.9	357.0	323.1	33.90	10.533		
6,950.0	6,342.3	6,496.4	6,058.6	35.4	57.0	-44.59	-13.6	-1,648.2	379.5	344.9	34.54	10.988		
7,000.0	6,357.9	6,520.8	6,070.8	35.9	57.7	-46.53	-13.6	-1,669.4	406.4	371.6	34.74	11.696		
7,050.0	6,371.7	6,541.4	6,081.1	36.3	58.3	-47.14	-13.6	-1,687.2	437.3	402.6	34.68	12.610		
7,100.0	6,383.6	6,557.9	6,089.4	36.7	58.8	-46.26	-13.6	-1,701.5	471.8	437.3	34.53	13.662		
7,150.0	6,393.4	6,570.2	6,095.5	37.0	59.2	-43.69	-13.6	-1,712.2	509.4	475.0	34.40	14.806		
7,200.0	6,401.2	6,578.3	6,099.5	37.3	59.4	-39.26	-13.6	-1,719.1	549.3	515.2	34.15	16.085		
7,239.3	6,405.8	6,581.6	6,101.2	37.5	59.5	-34.38	-13.6	-1,722.0	582.0	548.4	33.64	17.304		
7,300.0	6,411.8	6,584.6	6,102.7	37.7	59.6	-34.93	-13.6	-1,724.6	634.2	600.0	34.16	18.567		
7,400.0	6,421.7	7,546.1	6,442.6	38.2	73.5	-91.82	608.0	-2,205.8	660.0	612.7	47.31	13.951		
7,500.0	6,431.7	7,646.1	6,452.5	38.8	73.9	-91.82	707.5	-2,205.8	660.0	609.6	50.42	13.090		
7,600.0	6,441.6	7,746.1	6,462.4	39.4	74.5	-91.82	807.0	-2,205.8	660.0	606.2	53.81	12.265		
7,700.0	6,451.5	7,846.1	6,472.4	40.1	75.0	-91.82	906.5	-2,205.8	660.0	602.6	57.43	11.493		
7,800.0	6,461.5	7,946.1	6,482.3	40.9	75.7	-91.82	1,006.0	-2,205.8	660.0	598.8	61.23	10.779		
7,900.0	6,471.4	8,046.1	6,492.2	41.8	76.4	-91.82	1,105.5	-2,205.8	660.0	594.8	65.19	10.125		
8,000.0	6,481.3	8,146.1	6,502.2	42.7	77.3	-91.82	1,205.0	-2,205.8	660.0	590.8	69.27	9.528		
8,100.0	6,491.3	8,246.1	6,512.1	43.7	78.2	-91.82	1,304.5	-2,205.8	660.0	586.6	73.46	8.985		
8,200.0	6,501.2	8,346.1	6,522.0	44.8	79.2	-91.82	1,404.0	-2,205.8	660.0	582.3	77.74	8.491		
8,300.0	6,511.1	8,446.1	6,532.0	45.9	80.3	-91.82	1,503.5	-2,205.8	660.0	578.0	82.09	8.041		
8,400.0	6,521.0	8,546.1	6,541.9	47.0	81.4	-91.82	1,603.1	-2,205.8	660.0	573.5	86.50	7.630		
8,500.0	6,531.0	8,646.1	6,551.8	48.3	82.7	-91.82	1,702.6	-2,205.7	660.0	569.1	90.97	7.255		
8,600.0	6,540.9	8,746.1	6,561.8	49.5	84.1	-91.82	1,802.1	-2,205.7	660.0	564.6	95.49	6.912		
8,700.0	6,550.8	8,846.1	6,571.7	50.8	85.6	-91.82	1,901.6	-2,205.7	660.1	560.0	100.05	6.598		
8,800.0	6,560.8	8,946.1	6,581.6	52.2	87.1	-91.82	2,001.1	-2,205.7	660.1	555.4	104.64	6.308		
8,900.0	6,570.7	9,046.1	6,591.6	53.6	88.8	-91.82	2,100.6	-2,205.7	660.1	550.8	109.26	6.041		
9,000.0	6,580.6	9,146.1	6,601.5	55.0	90.5	-91.82	2,200.1	-2,205.7	660.1	546.2	113.91	5.795		
9,100.0	6,590.6	9,246.1	6,611.4	56.5	92.3	-91.82	2,299.6	-2,205.7	660.1	541.5	118.58	5.566		
9,200.0	6,600.5	9,346.1	6,621.4	58.0	94.2	-91.82	2,399.1	-2,205.7	660.1	536.8	123.27	5.355		
9,300.0	6,610.4	9,446.1	6,631.3	59.5	96.2	-91.82	2,498.6	-2,205.7	660.1	532.1	127.98	5.157		
9,400.0	6,620.4	9,546.1	6,641.2	61.0	98.2	-91.82	2,598.1	-2,205.7	660.1	527.4	132.71	4.974		
9,500.0	6,630.3	9,646.1	6,651.2	62.6	100.3	-91.82	2,697.6	-2,205.7	660.1	522.6	137.46	4.802		
9,600.0	6,640.2	9,746.1	6,661.1	64.2	102.5	-91.82	2,797.1	-2,205.7	660.1	517.9	142.22	4.641		

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 2-6H
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 2-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,700.0	6,650.2	9,846.1	6,671.0	65.8	104.7	-91.82	2,896.6	-2,205.7	660.1	513.1	146.98	4.491		
9,800.0	6,660.1	9,946.1	6,680.9	67.4	107.0	-91.82	2,996.1	-2,205.7	660.1	508.3	151.77	4.349		
9,900.0	6,670.0	10,046.1	6,690.9	69.0	109.4	-91.82	3,095.6	-2,205.7	660.1	503.5	156.56	4.216		
10,000.0	6,680.0	10,146.1	6,700.8	70.7	111.7	-91.82	3,195.1	-2,205.7	660.1	498.7	161.36	4.091		
10,100.0	6,689.9	10,246.1	6,710.7	72.4	114.1	-91.82	3,294.6	-2,205.7	660.1	493.9	166.16	3.973		
10,200.0	6,699.8	10,346.1	6,720.7	74.1	116.6	-91.82	3,394.2	-2,205.7	660.1	489.1	170.98	3.861		
10,300.0	6,709.8	10,446.1	6,730.6	75.8	119.1	-91.82	3,493.7	-2,205.7	660.1	484.3	175.80	3.755		
10,400.0	6,719.7	10,546.1	6,740.5	77.5	121.6	-91.82	3,593.2	-2,205.7	660.1	479.5	180.63	3.654		
10,500.0	6,729.6	10,646.1	6,750.5	79.2	124.2	-91.82	3,692.7	-2,205.7	660.1	474.6	185.47	3.559		
10,600.0	6,739.6	10,746.1	6,760.4	80.9	126.8	-91.82	3,792.2	-2,205.7	660.1	469.8	190.31	3.469		
10,700.0	6,749.5	10,846.1	6,770.3	82.7	129.4	-91.82	3,891.7	-2,205.7	660.1	465.0	195.15	3.383		
10,800.0	6,759.4	10,946.1	6,780.3	84.4	132.0	-91.82	3,991.2	-2,205.7	660.1	460.1	200.00	3.301		
10,900.0	6,769.3	11,046.1	6,790.2	86.2	134.6	-91.82	4,090.7	-2,205.7	660.1	455.3	204.86	3.222		
11,000.0	6,779.3	11,146.1	6,800.1	87.9	137.3	-91.82	4,190.2	-2,205.6	660.1	450.4	209.72	3.148		
11,100.0	6,789.2	11,246.1	6,810.1	89.7	140.0	-91.82	4,289.7	-2,205.6	660.1	445.5	214.58	3.076		
11,200.0	6,799.1	11,346.1	6,820.0	91.5	142.7	-91.82	4,389.2	-2,205.6	660.1	440.7	219.45	3.008		
11,300.0	6,809.1	11,446.1	6,829.9	93.3	145.4	-91.82	4,488.7	-2,205.6	660.1	435.8	224.32	2.943		
11,400.0	6,819.0	11,546.1	6,839.9	95.0	148.2	-91.82	4,588.2	-2,205.6	660.1	430.9	229.19	2.880		
11,500.0	6,828.9	11,646.1	6,849.8	96.8	150.9	-91.82	4,687.7	-2,205.6	660.1	426.1	234.07	2.820		
11,600.0	6,838.9	11,746.1	6,859.7	98.6	153.7	-91.82	4,787.2	-2,205.6	660.1	421.2	238.94	2.763		
11,700.0	6,848.8	11,846.1	6,869.7	100.4	156.5	-91.82	4,886.7	-2,205.6	660.1	416.3	243.83	2.707		
11,800.0	6,858.7	11,946.1	6,879.6	102.3	159.3	-91.82	4,986.2	-2,205.6	660.1	411.4	248.71	2.654		
11,900.0	6,868.7	12,046.1	6,889.5	104.1	162.1	-91.82	5,085.7	-2,205.6	660.2	406.6	253.59	2.603		
12,000.0	6,878.6	12,146.1	6,899.5	105.9	164.9	-91.82	5,185.3	-2,205.6	660.2	401.7	258.48	2.554		
12,100.0	6,888.5	12,246.1	6,909.4	107.7	167.7	-91.82	5,284.8	-2,205.6	660.2	396.8	263.37	2.507		
12,200.0	6,898.5	12,346.1	6,919.3	109.5	170.5	-91.82	5,384.3	-2,205.6	660.2	391.9	268.26	2.461		
12,300.0	6,908.4	12,446.1	6,929.2	111.4	173.4	-91.82	5,483.8	-2,205.6	660.2	387.0	273.16	2.417		
12,400.0	6,918.3	12,546.1	6,939.2	113.2	176.2	-91.82	5,583.3	-2,205.6	660.2	382.1	278.05	2.374		
12,500.0	6,928.3	12,646.1	6,949.1	115.0	179.0	-91.82	5,682.8	-2,205.6	660.2	377.2	282.95	2.333		
12,600.0	6,938.2	12,746.1	6,959.0	116.9	181.9	-91.82	5,782.3	-2,205.6	660.2	372.3	287.85	2.293		
12,700.0	6,948.1	12,846.1	6,969.0	118.7	184.8	-91.82	5,881.8	-2,205.6	660.2	367.4	292.75	2.255		
12,800.0	6,958.1	12,946.1	6,978.9	120.5	187.6	-91.82	5,981.3	-2,205.6	660.2	362.5	297.65	2.218		
12,839.6	6,962.0	12,985.7	6,982.8	121.3	188.8	-91.82	6,020.7	-2,205.6	660.2	360.6	299.59	2.204		
12,840.2	6,962.1	12,986.4	6,982.9	121.4	188.8	-91.82	6,021.3	-2,205.6	660.2	360.6	299.62	2.203		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	24.84	13.6	6.3	15.0					
100.0	100.0	100.0	100.0	0.1	0.1	24.84	13.6	6.3	15.0	14.8	0.19	79.434		
200.0	200.0	200.0	200.0	0.3	0.3	24.84	13.6	6.3	15.0	14.4	0.64	23.495		
300.0	300.0	300.0	300.0	0.5	0.5	24.84	13.6	6.3	15.0	13.9	1.09	13.786		
400.0	400.0	400.0	400.0	0.8	0.8	24.84	13.6	6.3	15.0	13.5	1.54	9.755		
500.0	500.0	500.0	500.0	1.0	1.0	24.84	13.6	6.3	15.0	13.0	1.99	7.548		
600.0	600.0	600.0	600.0	1.2	1.2	24.84	13.6	6.3	15.0	12.6	2.44	6.155		
700.0	700.0	700.0	700.0	1.4	1.4	24.84	13.6	6.3	15.0	12.1	2.89	5.197		
800.0	800.0	800.0	800.0	1.7	1.7	24.84	13.6	6.3	15.0	11.7	3.34	4.496		
900.0	900.0	900.0	900.0	1.9	1.9	24.84	13.6	6.3	15.0	11.2	3.79	3.962		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	24.84	13.6	6.3	15.0	10.8	4.23	3.542		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	24.84	13.6	6.3	15.0	10.3	4.68	3.202		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	24.84	13.6	6.3	15.0	9.9	5.13	2.921		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	24.84	13.6	6.3	15.0	9.4	5.58	2.686		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	24.84	13.6	6.3	15.0	9.0	6.03	2.486		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	24.84	13.6	6.3	15.0	8.5	6.48	2.314		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	24.84	13.6	6.3	15.0	8.1	6.93	2.164		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	24.84	13.6	6.3	15.0	7.6	7.38	2.032		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	24.84	13.6	6.3	15.0	7.2	7.83	1.915	Level 4	
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	24.84	13.6	6.3	15.0	6.7	8.28	1.811	Level 4	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	24.84	13.6	6.3	15.0	6.3	8.73	1.718	Level 4	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	24.84	13.6	6.3	15.0	5.8	9.18	1.634	Level 4	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	24.84	13.6	6.3	15.0	5.4	9.63	1.558	Level 4	
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	24.84	13.6	6.3	15.0	4.9	10.08	1.488	Level 3	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	24.84	13.6	6.3	15.0	4.5	10.53	1.425	Level 3	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	24.84	13.6	6.3	15.0	4.0	10.98	1.366	Level 3	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	24.84	13.6	6.3	15.0	3.6	11.43	1.312	Level 3	
2,700.0	2,700.0	2,700.0	2,700.0	5.9	5.9	24.84	13.6	6.3	15.0	3.1	11.88	1.263	Level 3	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	24.84	13.6	6.3	15.0	2.7	12.33	1.217	Level 2	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	24.84	13.6	6.3	15.0	2.2	12.78	1.174	Level 2, CC	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	125.24	13.6	6.3	15.9	2.7	13.21	1.207	Level 2	
3,100.0	3,099.8	3,099.8	3,099.8	6.8	6.8	137.89	13.6	6.3	19.4	5.8	13.62	1.427	Level 3	
3,200.0	3,199.5	3,199.9	3,199.9	7.0	7.1	150.17	13.5	5.9	26.2	12.2	14.01	1.868	Level 4	
3,300.0	3,298.7	3,300.5	3,300.4	7.2	7.2	157.93	13.0	2.4	33.9	19.5	14.36	2.361		
3,400.0	3,397.5	3,401.4	3,401.1	7.5	7.5	163.11	11.8	-4.6	41.9	27.2	14.71	2.852		
3,500.0	3,495.6	3,502.6	3,501.7	7.7	7.7	166.91	10.0	-15.1	50.1	35.1	15.04	3.332		
3,600.0	3,593.1	3,604.1	3,602.2	8.0	7.9	169.90	7.7	-29.1	58.4	43.0	15.37	3.797		
3,611.2	3,603.9	3,615.5	3,613.5	8.0	7.9	170.20	7.4	-30.9	59.3	43.9	15.41	3.848		
3,700.0	3,690.0	3,706.1	3,702.6	8.3	8.1	172.25	4.8	-46.8	65.3	49.5	15.77	4.140		
3,800.0	3,786.9	3,808.4	3,802.6	8.6	8.4	174.06	1.2	-68.0	68.8	52.6	16.19	4.247		
3,900.0	3,883.9	3,910.8	3,901.9	9.0	8.7	175.71	-2.9	-92.8	68.7	52.1	16.62	4.135		
4,000.0	3,980.8	4,011.9	3,999.1	9.4	9.1	177.41	-7.5	-120.2	65.6	48.6	17.06	3.848		
4,100.0	4,077.7	4,111.8	4,095.1	9.8	9.4	179.28	-12.1	-147.7	62.2	44.7	17.50	3.555		
4,200.0	4,174.7	4,211.8	4,191.0	10.2	9.8	-178.64	-16.6	-175.2	58.9	40.9	17.96	3.277		
4,300.0	4,271.6	4,311.7	4,287.0	10.6	10.2	-176.30	-21.2	-202.7	55.6	37.2	18.44	3.015		
4,400.0	4,368.5	4,411.6	4,382.9	11.0	10.6	-173.68	-25.8	-230.2	52.4	33.5	18.95	2.767		
4,500.0	4,465.5	4,511.5	4,478.9	11.4	11.1	-170.73	-30.4	-257.7	49.4	29.9	19.49	2.534		
4,600.0	4,562.4	4,611.4	4,574.8	11.9	11.5	-167.40	-35.0	-285.2	46.5	26.4	20.09	2.314		
4,700.0	4,659.3	4,711.4	4,670.8	12.3	12.0	-163.65	-39.6	-312.7	43.8	23.0	20.77	2.107		
4,800.0	4,756.3	4,811.3	4,766.7	12.8	12.5	-159.42	-44.1	-340.2	41.3	19.7	21.56	1.914	Level 4	
4,900.0	4,853.2	4,911.2	4,862.7	13.3	13.0	-154.68	-48.7	-367.7	39.0	16.5	22.48	1.736	Level 4	
5,000.0	4,950.1	5,011.1	4,958.6	13.7	13.5	-149.39	-53.3	-395.2	37.1	13.5	23.56	1.573	Level 4	

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 2-6H
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 2-6H	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	5,047.1	5,111.0	5,054.6	14.2	14.0	-143.58	-57.9	-422.7	35.5	10.6	24.82	1.429	Level 3	
5,200.0	5,144.0	5,210.9	5,150.5	14.7	14.5	-137.29	-62.5	-450.2	34.3	8.0	26.24	1.305	Level 3	
5,300.0	5,240.9	5,310.9	5,246.5	15.2	15.0	-130.62	-67.1	-477.7	33.5	5.7	27.80	1.205	Level 2	
5,400.0	5,337.9	5,410.8	5,342.4	15.6	15.6	-123.74	-71.6	-505.2	33.2	3.8	29.43	1.128	Level 2	
5,410.9	5,348.5	5,421.7	5,352.9	15.7	15.6	-122.99	-72.1	-508.2	33.2	3.6	29.61	1.121	Level 2	
5,500.0	5,434.8	5,510.7	5,438.4	16.1	16.1	-116.84	-76.2	-532.7	33.4	2.3	31.06	1.075	Level 2	
5,602.7	5,534.4	5,613.4	5,537.0	16.6	16.7	-109.94	-80.9	-560.9	34.1	1.4	32.64	1.044	Level 2, ES, SF	
5,650.0	5,579.8	5,660.6	5,582.3	16.9	16.9	-109.24	-83.1	-573.9	35.0	1.9	33.17	1.056	Level 2	
5,700.0	5,626.8	5,710.5	5,630.2	17.2	17.2	-113.39	-85.4	-587.7	37.3	3.9	33.35	1.118	Level 2	
5,750.0	5,672.4	5,761.4	5,679.1	17.6	17.4	-121.83	-87.1	-601.8	40.9	8.0	32.90	1.244	Level 2	
5,800.0	5,716.6	5,812.8	5,728.3	18.0	17.7	-134.77	-85.6	-616.4	45.2	13.9	31.23	1.446	Level 3	
5,850.0	5,759.0	5,862.7	5,775.8	18.5	17.9	-149.96	-80.6	-630.9	52.1	23.6	28.51	1.829	Level 4	
5,900.0	5,799.4	5,910.6	5,820.9	19.0	18.2	-164.40	-72.6	-645.2	64.0	38.1	25.89	2.473		
5,950.0	5,837.7	5,956.0	5,862.8	19.6	18.4	-176.25	-62.2	-658.8	81.6	57.2	24.41	3.343		
6,000.0	5,873.7	5,998.4	5,901.3	20.3	18.6	174.62	-49.9	-671.7	104.5	80.4	24.09	4.339		
6,050.0	5,907.1	6,037.7	5,936.2	21.0	18.8	167.56	-36.5	-683.7	132.1	107.6	24.52	5.388		
6,100.0	5,937.9	6,073.7	5,967.5	21.8	19.0	161.90	-22.4	-694.7	163.7	138.3	25.38	6.448		
6,150.0	5,965.8	6,106.5	5,995.3	22.6	19.1	157.08	-8.2	-704.7	198.6	172.1	26.53	7.486		
6,174.9	5,978.7	6,121.6	6,007.9	23.1	19.2	154.86	-1.1	-709.4	217.1	189.9	27.20	7.982		
6,200.0	5,991.2	6,136.3	6,019.9	23.5	19.3	153.70	5.9	-713.8	236.2	208.3	27.84	8.483		
6,300.0	6,041.2	6,191.6	6,063.9	25.4	19.6	149.75	34.9	-730.5	313.5	283.1	30.38	10.318		
6,324.9	6,053.7	6,204.6	6,073.9	25.8	19.6	148.90	42.2	-734.4	333.1	302.1	31.00	10.744		
6,350.0	6,066.3	6,217.6	6,083.9	26.3	19.7	144.31	49.8	-738.3	352.7	320.0	32.72	10.781		
6,400.0	6,091.6	6,244.6	6,103.9	27.2	19.8	136.21	65.9	-746.3	390.8	355.1	35.73	10.937		
6,450.0	6,117.2	6,272.7	6,124.0	28.1	20.0	129.23	83.6	-754.5	427.3	389.1	38.19	11.189		
6,500.0	6,142.8	6,300.0	6,143.0	28.9	20.2	123.12	101.7	-762.5	462.0	421.9	40.14	11.510		
6,550.0	6,168.2	6,332.1	6,164.4	29.8	20.3	117.68	123.8	-771.6	494.7	453.0	41.68	11.869		
6,600.0	6,193.2	6,363.4	6,184.2	30.7	20.5	112.83	146.3	-780.4	525.1	482.3	42.82	12.263		
6,650.0	6,217.7	6,400.0	6,206.1	31.5	20.8	108.47	173.9	-790.5	553.3	509.6	43.67	12.670		
6,700.0	6,241.3	6,428.7	6,222.4	32.3	21.0	104.52	196.3	-798.2	578.9	534.8	44.13	13.119		
6,750.0	6,264.1	6,462.7	6,240.4	33.0	21.2	100.99	223.7	-807.0	602.0	557.6	44.35	13.573		
6,800.0	6,285.7	6,505.5	6,261.8	33.7	21.5	97.93	259.1	-818.0	622.1	577.7	44.40	14.013		
6,850.0	6,306.1	6,552.4	6,285.3	34.3	21.9	95.46	297.9	-830.0	638.7	594.5	44.23	14.443		
6,900.0	6,325.0	6,600.3	6,309.2	34.9	22.3	93.54	337.6	-842.2	651.7	607.8	43.84	14.865		
6,950.0	6,342.3	6,637.7	6,327.7	35.4	22.6	91.95	368.6	-851.6	661.1	617.9	43.15	15.321		
7,000.0	6,357.9	6,666.3	6,341.0	35.9	22.9	90.55	393.1	-858.3	668.1	625.8	42.21	15.825		
7,050.0	6,371.7	6,700.0	6,355.3	36.3	23.2	89.52	422.8	-865.2	672.8	631.6	41.23	16.319		
7,100.0	6,383.6	6,724.3	6,364.6	36.7	23.4	88.66	444.8	-869.6	675.2	635.1	40.06	16.853		
7,150.0	6,393.4	6,750.0	6,373.7	37.0	23.6	88.13	468.5	-873.6	675.2	636.4	38.88	17.366		
7,200.0	6,401.2	6,783.1	6,384.0	37.3	23.9	87.99	499.6	-878.0	673.0	635.1	37.84	17.787		
7,239.3	6,405.8	6,800.0	6,388.7	37.5	24.0	87.98	515.8	-879.9	669.6	632.7	36.95	18.121		
7,300.0	6,411.8	6,850.0	6,400.1	37.7	24.5	88.53	564.3	-884.0	664.4	626.2	38.22	17.383		
7,400.0	6,421.7	6,904.0	6,408.4	38.2	25.0	88.79	617.6	-885.8	660.5	620.5	39.99	16.515		
7,440.3	6,425.7	6,938.1	6,411.9	38.4	25.3	88.79	651.5	-885.8	660.4	619.5	40.91	16.142		
7,500.0	6,431.7	6,997.8	6,417.8	38.8	25.9	88.79	710.9	-885.8	660.4	618.0	42.40	15.576		
7,600.0	6,441.6	7,097.8	6,427.7	39.4	26.9	88.79	810.4	-885.8	660.4	615.4	45.04	14.661		
7,700.0	6,451.5	7,197.8	6,437.7	40.1	28.1	88.79	910.0	-885.8	660.4	612.6	47.85	13.802		
7,800.0	6,461.5	7,297.8	6,447.6	40.9	29.3	88.79	1,009.5	-885.8	660.4	609.6	50.79	13.002		
7,900.0	6,471.4	7,397.8	6,457.5	41.8	30.6	88.79	1,109.0	-885.8	660.4	606.5	53.85	12.264		
8,000.0	6,481.3	7,497.8	6,467.5	42.7	32.0	88.79	1,208.5	-885.8	660.4	603.4	57.00	11.586		
8,100.0	6,491.3	7,597.8	6,477.4	43.7	33.4	88.79	1,308.0	-885.8	660.4	600.1	60.23	10.965		
8,200.0	6,501.2	7,697.8	6,487.3	44.8	34.9	88.79	1,407.5	-885.8	660.4	596.8	63.52	10.395		

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 2-6H
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 2-6H	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		
8,300.0	6,511.1	7,797.8	6,497.3	45.9	36.4	88.79	1,507.0	-885.8	660.4	593.5	66.88	9.874		
8,400.0	6,521.0	7,897.8	6,507.2	47.0	38.0	88.79	1,606.5	-885.8	660.3	590.1	70.29	9.395		
8,500.0	6,531.0	7,997.8	6,517.1	48.3	39.6	88.79	1,706.0	-885.8	660.3	586.6	73.74	8.955		
8,600.0	6,540.9	8,097.8	6,527.1	49.5	41.2	88.79	1,805.5	-885.8	660.3	583.1	77.22	8.551		
8,700.0	6,550.8	8,197.8	6,537.0	50.8	42.9	88.79	1,905.0	-885.8	660.3	579.6	80.74	8.178		
8,800.0	6,560.8	8,297.8	6,546.9	52.2	44.6	88.79	2,004.5	-885.8	660.3	576.0	84.29	7.834		
8,900.0	6,570.7	8,397.8	6,556.9	53.6	46.2	88.79	2,104.0	-885.8	660.3	572.4	87.86	7.516		
9,000.0	6,580.6	8,497.8	6,566.8	55.0	48.0	88.79	2,203.5	-885.8	660.3	568.8	91.45	7.220		
9,100.0	6,590.6	8,597.8	6,576.7	56.5	49.7	88.79	2,303.0	-885.8	660.3	565.2	95.06	6.946		
9,200.0	6,600.5	8,697.8	6,586.7	58.0	51.4	88.79	2,402.5	-885.8	660.3	561.6	98.69	6.690		
9,300.0	6,610.4	8,797.8	6,596.6	59.5	53.2	88.79	2,502.0	-885.8	660.3	557.9	102.34	6.452		
9,400.0	6,620.4	8,897.8	6,606.5	61.0	54.9	88.79	2,601.5	-885.8	660.3	554.3	106.00	6.229		
9,500.0	6,630.3	8,997.8	6,616.4	62.6	56.7	88.79	2,701.1	-885.9	660.3	550.6	109.67	6.020		
9,600.0	6,640.2	9,097.8	6,626.4	64.2	58.5	88.79	2,800.6	-885.9	660.3	546.9	113.35	5.825		
9,700.0	6,650.2	9,197.8	6,636.3	65.8	60.3	88.79	2,900.1	-885.9	660.2	543.2	117.05	5.641		
9,800.0	6,660.1	9,297.8	6,646.2	67.4	62.1	88.79	2,999.6	-885.9	660.2	539.5	120.75	5.468		
9,900.0	6,670.0	9,397.8	6,656.2	69.0	63.9	88.79	3,099.1	-885.9	660.2	535.8	124.46	5.305		
10,000.0	6,680.0	9,497.8	6,666.1	70.7	65.7	88.79	3,198.6	-885.9	660.2	532.0	128.18	5.151		
10,100.0	6,689.9	9,597.8	6,676.0	72.4	67.5	88.79	3,298.1	-885.9	660.2	528.3	131.91	5.005		
10,200.0	6,699.8	9,697.8	6,686.0	74.1	69.4	88.79	3,397.6	-885.9	660.2	524.6	135.64	4.867		
10,300.0	6,709.8	9,797.8	6,695.9	75.8	71.2	88.79	3,497.1	-885.9	660.2	520.8	139.38	4.737		
10,400.0	6,719.7	9,897.8	6,705.8	77.5	73.0	88.79	3,596.6	-885.9	660.2	517.1	143.12	4.613		
10,500.0	6,729.6	9,997.8	6,715.8	79.2	74.9	88.79	3,696.1	-885.9	660.2	513.3	146.87	4.495		
10,600.0	6,739.6	10,097.8	6,725.7	80.9	76.7	88.79	3,795.6	-885.9	660.2	509.6	150.62	4.383		
10,700.0	6,749.5	10,197.8	6,735.6	82.7	78.5	88.79	3,895.1	-885.9	660.2	505.8	154.38	4.276		
10,800.0	6,759.4	10,297.8	6,745.6	84.4	80.4	88.79	3,994.6	-885.9	660.2	502.0	158.14	4.174		
10,900.0	6,769.3	10,397.8	6,755.5	86.2	82.3	88.79	4,094.1	-885.9	660.1	498.2	161.91	4.077		
11,000.0	6,779.3	10,497.8	6,765.4	87.9	84.1	88.79	4,193.6	-885.9	660.1	494.5	165.68	3.985		
11,100.0	6,789.2	10,597.8	6,775.4	89.7	86.0	88.79	4,293.1	-885.9	660.1	490.7	169.45	3.896		
11,200.0	6,799.1	10,697.8	6,785.3	91.5	87.8	88.79	4,392.6	-885.9	660.1	486.9	173.23	3.811		
11,300.0	6,809.1	10,797.8	6,795.2	93.3	89.7	88.79	4,492.2	-885.9	660.1	483.1	177.00	3.729		
11,400.0	6,819.0	10,897.8	6,805.2	95.0	91.6	88.79	4,591.7	-885.9	660.1	479.3	180.78	3.651		
11,500.0	6,828.9	10,997.8	6,815.1	96.8	93.4	88.79	4,691.2	-885.9	660.1	475.5	184.57	3.576		
11,600.0	6,838.9	11,097.8	6,825.0	98.6	95.3	88.79	4,790.7	-885.9	660.1	471.7	188.35	3.505		
11,700.0	6,848.8	11,197.8	6,835.0	100.4	97.2	88.79	4,890.2	-885.9	660.1	467.9	192.14	3.435		
11,800.0	6,858.7	11,297.8	6,844.9	102.3	99.0	88.79	4,989.7	-885.9	660.1	464.1	195.93	3.369		
11,900.0	6,868.7	11,397.8	6,854.8	104.1	100.9	88.79	5,089.2	-885.9	660.1	460.3	199.72	3.305		
12,000.0	6,878.6	11,497.8	6,864.7	105.9	102.8	88.79	5,188.7	-885.9	660.1	456.5	203.52	3.243		
12,100.0	6,888.5	11,597.8	6,874.7	107.7	104.7	88.79	5,288.2	-885.9	660.1	452.7	207.31	3.184		
12,200.0	6,898.5	11,697.8	6,884.6	109.5	106.6	88.79	5,387.7	-885.9	660.0	448.9	211.11	3.127		
12,300.0	6,908.4	11,797.8	6,894.5	111.4	108.4	88.79	5,487.2	-885.9	660.0	445.1	214.91	3.071		
12,400.0	6,918.3	11,897.8	6,904.5	113.2	110.3	88.79	5,586.7	-885.9	660.0	441.3	218.71	3.018		
12,500.0	6,928.3	11,997.8	6,914.4	115.0	112.2	88.79	5,686.2	-885.9	660.0	437.5	222.51	2.966		
12,600.0	6,938.2	12,097.8	6,924.3	116.9	114.1	88.79	5,785.7	-885.9	660.0	433.7	226.32	2.916		
12,700.0	6,948.1	12,197.8	6,934.3	118.7	116.0	88.79	5,885.2	-885.9	660.0	429.9	230.12	2.868		
12,800.0	6,958.1	12,297.8	6,944.2	120.5	117.9	88.79	5,984.7	-885.9	660.0	426.1	233.93	2.821		
12,827.6	6,960.8	12,325.4	6,946.9	121.1	118.3	88.79	6,012.2	-885.9	660.0	425.1	234.88	2.810		
12,839.6	6,962.0	12,336.7	6,948.1	121.3	118.5	88.79	6,023.4	-885.9	660.0	424.7	235.28	2.805		
12,840.2	6,962.1	12,336.7	6,948.1	121.4	118.5	88.79	6,023.4	-885.9	660.0	424.7	235.29	2.805		

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 2-6H
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 2-6H	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	24.52	27.3	12.5	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	24.52	27.3	12.5	30.0	29.8	0.19	158.991		
200.0	200.0	200.0	200.0	0.3	0.3	24.52	27.3	12.5	30.0	29.4	0.64	47.026		
300.0	300.0	300.0	300.0	0.5	0.5	24.52	27.3	12.5	30.0	28.9	1.09	27.594		
400.0	400.0	400.0	400.0	0.8	0.8	24.52	27.3	12.5	30.0	28.5	1.54	19.525		
500.0	500.0	500.0	500.0	1.0	1.0	24.52	27.3	12.5	30.0	28.0	1.99	15.108		
600.0	600.0	600.0	600.0	1.2	1.2	24.52	27.3	12.5	30.0	27.6	2.44	12.320		
700.0	700.0	700.0	700.0	1.4	1.4	24.52	27.3	12.5	30.0	27.1	2.89	10.401		
800.0	800.0	800.0	800.0	1.7	1.7	24.52	27.3	12.5	30.0	26.7	3.34	9.000		
900.0	900.0	900.0	900.0	1.9	1.9	24.52	27.3	12.5	30.0	26.2	3.79	7.931		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	24.52	27.3	12.5	30.0	25.8	4.23	7.089		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	24.52	27.3	12.5	30.0	25.3	4.68	6.408		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	24.52	27.3	12.5	30.0	24.9	5.13	5.847		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	24.52	27.3	12.5	30.0	24.4	5.58	5.377		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	24.52	27.3	12.5	30.0	24.0	6.03	4.976		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	24.52	27.3	12.5	30.0	23.5	6.48	4.631		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	24.52	27.3	12.5	30.0	23.1	6.93	4.331		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	24.52	27.3	12.5	30.0	22.6	7.38	4.067		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	24.52	27.3	12.5	30.0	22.2	7.83	3.833		
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	24.52	27.3	12.5	30.0	21.7	8.28	3.625		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	24.52	27.3	12.5	30.0	21.3	8.73	3.439		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	24.52	27.3	12.5	30.0	20.8	9.18	3.270		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	24.52	27.3	12.5	30.0	20.4	9.63	3.117		
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	24.52	27.3	12.5	30.0	19.9	10.08	2.978		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	24.52	27.3	12.5	30.0	19.5	10.53	2.851		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	24.52	27.3	12.5	30.0	19.0	10.98	2.734		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	24.52	27.3	12.5	30.0	18.6	11.43	2.627		
2,700.0	2,700.0	2,700.0	2,700.0	5.9	5.9	24.52	27.3	12.5	30.0	18.1	11.88	2.527		
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	24.52	27.3	12.5	30.0	17.7	12.33	2.435		
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	24.52	27.3	12.5	30.0	17.2	12.78	2.350 CC, ES		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	122.29	27.3	12.5	30.9	17.7	13.21	2.340 SF		
3,100.0	3,099.8	3,099.8	3,099.8	6.8	6.8	129.72	27.3	12.5	34.0	20.4	13.62	2.496		
3,200.0	3,199.5	3,199.5	3,199.5	7.0	7.1	139.23	27.3	12.5	40.1	26.1	14.03	2.861		
3,300.0	3,298.7	3,298.7	3,298.7	7.2	7.3	148.26	27.3	12.5	50.0	35.6	14.42	3.469		
3,400.0	3,397.5	3,397.5	3,397.5	7.5	7.5	155.53	27.3	12.5	63.9	49.1	14.79	4.319		
3,500.0	3,495.6	3,498.3	3,498.3	7.7	7.7	161.38	26.3	11.1	80.1	65.0	15.13	5.292		
3,600.0	3,593.1	3,599.6	3,599.4	8.0	7.9	166.43	23.1	7.0	96.9	81.4	15.44	6.275		
3,611.2	3,603.9	3,610.9	3,610.8	8.0	7.9	166.97	22.6	6.3	98.8	83.3	15.47	6.386		
3,700.0	3,690.0	3,701.4	3,700.9	8.3	8.1	170.94	17.6	-0.1	113.0	97.2	15.81	7.149		
3,800.0	3,786.9	3,801.9	3,800.7	8.6	8.3	174.88	10.4	-9.5	126.9	110.7	16.19	7.837		
3,900.0	3,883.9	3,900.7	3,898.7	9.0	8.5	178.06	3.1	-19.0	141.0	124.4	16.60	8.493		
4,000.0	3,980.8	3,999.4	3,996.7	9.4	8.7	-179.34	-4.3	-28.6	155.3	138.3	17.01	9.131		
4,100.0	4,077.7	4,098.2	4,094.7	9.8	8.9	-177.18	-11.6	-38.1	170.0	152.5	17.44	9.747		
4,200.0	4,174.7	4,196.9	4,192.7	10.2	9.1	-175.37	-19.0	-47.7	184.8	166.9	17.88	10.337		
4,300.0	4,271.6	4,295.6	4,290.7	10.6	9.4	-173.83	-26.3	-57.2	199.8	181.5	18.33	10.900		
4,400.0	4,368.5	4,394.4	4,388.7	11.0	9.6	-172.50	-33.6	-66.8	215.0	196.2	18.80	11.436		
4,500.0	4,465.5	4,493.1	4,486.7	11.4	9.8	-171.35	-41.0	-76.3	230.2	210.9	19.27	11.945		
4,600.0	4,562.4	4,591.8	4,584.7	11.9	10.1	-170.34	-48.3	-85.9	245.5	225.7	19.75	12.428		
4,700.0	4,659.3	4,690.6	4,682.7	12.3	10.3	-169.45	-55.7	-95.4	260.8	240.6	20.24	12.885		
4,800.0	4,756.3	4,789.3	4,780.7	12.8	10.6	-168.66	-63.0	-105.0	276.3	255.5	20.74	13.317		
4,900.0	4,853.2	4,888.0	4,878.7	13.3	10.8	-167.95	-70.4	-114.5	291.7	270.5	21.25	13.727		
5,000.0	4,950.1	4,986.8	4,976.7	13.7	11.1	-167.31	-77.7	-124.1	307.2	285.5	21.77	14.114		

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 2-6H
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 2-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 4-6H - Wellbore #1 - Design #1													Offset Site Error: 0.0 usft	
Survey Program: 0-Sperry MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,047.1	5,085.5	5,074.7	14.2	11.3	-166.73	-85.1	-133.6	322.8	300.5	22.29	14.481		
5,200.0	5,144.0	5,184.2	5,172.7	14.7	11.6	-166.21	-92.4	-143.2	338.3	315.5	22.82	14.828		
5,300.0	5,240.9	5,283.0	5,270.7	15.2	11.9	-165.74	-99.7	-152.7	353.9	330.6	23.35	15.157		
5,400.0	5,337.9	5,381.7	5,368.7	15.6	12.1	-165.30	-107.1	-162.3	369.6	345.7	23.89	15.468		
5,500.0	5,434.8	5,480.5	5,466.7	16.1	12.4	-164.90	-114.4	-171.8	385.2	360.8	24.44	15.763		
5,602.7	5,534.4	5,581.9	5,567.3	16.6	12.7	-164.52	-122.0	-181.6	401.3	376.3	25.00	16.050		
5,650.0	5,579.8	5,631.2	5,616.3	16.9	12.8	-164.37	-124.5	-186.3	410.0	384.9	25.09	16.343		
5,700.0	5,626.8	5,683.1	5,668.0	17.2	13.0	-164.79	-123.7	-191.1	422.1	397.0	25.08	16.827		
5,750.0	5,672.4	5,733.3	5,717.8	17.6	13.1	-165.70	-119.2	-195.5	437.1	412.1	24.97	17.501		
5,800.0	5,716.6	5,780.8	5,764.5	18.0	13.2	-166.99	-111.8	-199.5	455.2	430.4	24.77	18.378		
5,850.0	5,759.0	5,825.2	5,807.7	18.5	13.2	-168.51	-102.1	-203.0	476.6	452.2	24.48	19.467		
5,900.0	5,799.4	5,866.0	5,846.8	19.0	13.3	-170.15	-90.8	-206.0	501.5	477.4	24.14	20.779		
5,950.0	5,837.7	5,903.1	5,881.8	19.6	13.4	-171.82	-78.7	-208.6	529.8	506.1	23.74	22.320		
6,000.0	5,873.7	5,936.4	5,912.6	20.3	13.4	-173.45	-66.2	-210.9	561.5	538.2	23.31	24.095		
6,050.0	5,907.1	5,966.0	5,939.4	21.0	13.4	-175.03	-54.0	-212.7	596.4	573.6	22.85	26.102		
6,100.0	5,937.9	5,991.9	5,962.5	21.8	13.5	-176.55	-42.3	-214.2	634.3	611.9	22.39	28.336		
6,150.0	5,965.8	6,014.3	5,982.2	22.6	13.5	-178.03	-31.6	-215.5	674.8	652.9	21.92	30.782		
6,174.9	5,978.7	6,024.3	5,990.8	23.1	13.5	-178.75	-26.6	-216.0	695.9	674.2	21.70	32.076		
6,200.0	5,991.2	6,033.8	5,999.0	23.5	13.5	-179.54	-21.8	-216.5	717.5	695.7	21.79	32.925		
6,300.0	6,041.2	6,069.5	6,029.0	25.4	13.6	177.61	-2.6	-218.3	804.2	781.9	22.26	36.130		
6,324.9	6,053.7	6,077.8	6,035.9	25.8	13.6	176.97	2.1	-218.7	826.0	803.6	22.40	36.881		
6,350.0	6,066.3	6,086.3	6,042.9	26.3	13.6	170.51	7.0	-219.1	847.9	824.9	23.02	36.839		
6,400.0	6,091.6	6,100.0	6,053.9	27.2	13.6	158.55	15.0	-219.7	891.4	866.2	25.22	35.344		
6,450.0	6,117.2	6,124.0	6,072.9	28.1	13.6	147.56	29.5	-220.7	934.2	906.1	28.08	33.275		
6,500.0	6,142.8	6,150.0	6,093.1	28.9	13.7	138.08	46.0	-221.7	976.0	945.2	30.77	31.722		
6,550.0	6,168.2	6,167.2	6,106.0	29.8	13.7	129.98	57.3	-222.3	1,016.3	983.3	33.00	30.796		
6,600.0	6,193.2	6,190.9	6,123.5	30.7	13.7	122.93	73.3	-223.0	1,055.1	1,020.3	34.78	30.337		
6,650.0	6,217.7	6,216.0	6,141.3	31.5	13.8	116.83	91.0	-223.7	1,091.9	1,055.8	36.09	30.255		
6,700.0	6,241.3	6,242.4	6,159.4	32.3	13.8	111.54	110.2	-224.4	1,126.7	1,089.7	37.04	30.416		
6,750.0	6,264.1	6,270.2	6,177.7	33.0	13.9	106.93	131.1	-225.0	1,159.2	1,121.5	37.66	30.780		
6,800.0	6,285.7	6,300.0	6,196.4	33.7	14.0	102.93	154.3	-225.5	1,189.2	1,151.2	37.98	31.308		
6,850.0	6,306.1	6,329.8	6,214.1	34.3	14.1	99.46	178.2	-225.8	1,216.6	1,178.6	38.06	31.965		
6,900.0	6,325.0	6,361.5	6,231.9	34.9	14.2	96.48	204.5	-226.1	1,241.2	1,203.3	37.93	32.722		
6,950.0	6,342.3	6,396.6	6,250.2	35.4	14.4	93.96	234.5	-226.2	1,262.9	1,225.3	37.65	33.546		
7,000.0	6,357.9	6,439.2	6,271.4	35.9	14.7	91.97	271.3	-226.2	1,281.4	1,244.1	37.28	34.369		
7,050.0	6,371.7	6,485.4	6,294.5	36.3	15.0	90.49	311.3	-226.2	1,296.3	1,259.5	36.83	35.194		
7,100.0	6,383.6	6,532.0	6,317.8	36.7	15.4	89.47	351.7	-226.2	1,307.6	1,271.3	36.34	35.979		
7,150.0	6,393.4	6,575.6	6,339.0	37.0	15.7	88.82	389.8	-226.2	1,315.4	1,279.6	35.84	36.705		
7,200.0	6,401.2	6,619.3	6,357.4	37.3	16.2	88.46	429.5	-226.2	1,319.7	1,284.3	35.37	37.307		
7,239.3	6,405.8	6,654.8	6,370.1	37.5	16.5	88.41	462.5	-226.2	1,320.5	1,285.4	35.07	37.649		
7,300.0	6,411.8	6,711.3	6,386.0	37.7	17.1	88.86	516.7	-226.2	1,320.2	1,283.9	36.34	36.325		
7,400.0	6,421.7	6,807.9	6,400.9	38.2	18.3	89.09	612.1	-226.2	1,320.1	1,281.5	38.59	34.205		
7,500.0	6,431.7	6,907.9	6,410.8	38.8	19.6	89.09	711.6	-226.2	1,320.1	1,279.0	41.10	32.118		
7,600.0	6,441.6	7,007.9	6,420.8	39.4	21.0	89.09	811.1	-226.2	1,320.1	1,276.3	43.80	30.137		
7,700.0	6,451.5	7,107.9	6,430.7	40.1	22.5	89.09	910.6	-226.2	1,320.1	1,273.4	46.66	28.289		
7,800.0	6,461.5	7,207.9	6,440.6	40.9	24.0	89.09	1,010.1	-226.2	1,320.1	1,270.4	49.66	26.584		
7,900.0	6,471.4	7,307.9	6,450.6	41.8	25.6	89.09	1,109.6	-226.2	1,320.1	1,267.3	52.76	25.021		
8,000.0	6,481.3	7,407.9	6,460.5	42.7	27.2	89.09	1,209.1	-226.1	1,320.1	1,264.1	55.95	23.592		
8,100.0	6,491.3	7,507.9	6,470.4	43.7	28.9	89.09	1,308.6	-226.1	1,320.1	1,260.9	59.23	22.289		
8,200.0	6,501.2	7,607.9	6,480.3	44.8	30.6	89.09	1,408.1	-226.1	1,320.1	1,257.5	62.56	21.101		
8,300.0	6,511.1	7,707.9	6,490.3	45.9	32.3	89.09	1,507.6	-226.1	1,320.1	1,254.1	65.95	20.016		
8,400.0	6,521.0	7,807.9	6,500.2	47.0	34.1	89.09	1,607.1	-226.1	1,320.1	1,250.7	69.39	19.024		

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 2-6H
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 2-6H	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	6,531.0	7,907.9	6,510.1	48.3	35.8	89.09	1,706.7	-226.1	1,320.1	1,247.2	72.87	18.116		
8,600.0	6,540.9	8,007.9	6,520.1	49.5	37.6	89.09	1,806.2	-226.1	1,320.1	1,243.7	76.38	17.283		
8,700.0	6,550.8	8,107.9	6,530.0	50.8	39.4	89.09	1,905.7	-226.1	1,320.1	1,240.1	79.92	16.517		
8,800.0	6,560.8	8,207.9	6,539.9	52.2	41.2	89.09	2,005.2	-226.1	1,320.1	1,236.6	83.49	15.811		
8,900.0	6,570.7	8,307.9	6,549.9	53.6	43.0	89.09	2,104.7	-226.1	1,320.0	1,233.0	87.08	15.158		
9,000.0	6,580.6	8,407.9	6,559.8	55.0	44.8	89.09	2,204.2	-226.1	1,320.0	1,229.3	90.70	14.555		
9,100.0	6,590.6	8,507.9	6,569.7	56.5	46.7	89.09	2,303.7	-226.1	1,320.0	1,225.7	94.33	13.994		
9,200.0	6,600.5	8,607.9	6,579.7	58.0	48.5	89.09	2,403.2	-226.1	1,320.0	1,222.1	97.97	13.473		
9,300.0	6,610.4	8,707.9	6,589.6	59.5	50.4	89.09	2,502.7	-226.1	1,320.0	1,218.4	101.64	12.988		
9,400.0	6,620.4	8,807.9	6,599.5	61.0	52.2	89.09	2,602.2	-226.1	1,320.0	1,214.7	105.31	12.535		
9,500.0	6,630.3	8,907.9	6,609.5	62.6	54.1	89.09	2,701.7	-226.1	1,320.0	1,211.0	109.00	12.111		
9,600.0	6,640.2	9,007.9	6,619.4	64.2	55.9	89.09	2,801.2	-226.1	1,320.0	1,207.3	112.69	11.714		
9,700.0	6,650.2	9,107.9	6,629.3	65.8	57.8	89.09	2,900.7	-226.1	1,320.0	1,203.6	116.40	11.341		
9,800.0	6,660.1	9,207.9	6,639.3	67.4	59.6	89.09	3,000.2	-226.1	1,320.0	1,199.9	120.11	10.990		
9,900.0	6,670.0	9,307.9	6,649.2	69.0	61.5	89.09	3,099.7	-226.1	1,320.0	1,196.2	123.83	10.660		
10,000.0	6,680.0	9,407.9	6,659.1	70.7	63.4	89.09	3,199.2	-226.1	1,320.0	1,192.4	127.56	10.348		
10,100.0	6,689.9	9,507.9	6,669.1	72.4	65.3	89.09	3,298.7	-226.1	1,320.0	1,188.7	131.30	10.053		
10,200.0	6,699.8	9,607.9	6,679.0	74.1	67.1	89.09	3,398.2	-226.1	1,320.0	1,184.9	135.04	9.775		
10,300.0	6,709.8	9,707.9	6,688.9	75.8	69.0	89.09	3,497.8	-226.1	1,320.0	1,181.2	138.79	9.511		
10,400.0	6,719.7	9,807.9	6,698.9	77.5	70.9	89.09	3,597.3	-226.1	1,320.0	1,177.4	142.54	9.260		
10,500.0	6,729.6	9,907.9	6,708.8	79.2	72.8	89.09	3,696.8	-226.1	1,320.0	1,173.7	146.30	9.023		
10,600.0	6,739.6	10,007.9	6,718.7	80.9	74.7	89.09	3,796.3	-226.1	1,320.0	1,169.9	150.06	8.796		
10,700.0	6,749.5	10,107.9	6,728.6	82.7	76.6	89.09	3,895.8	-226.1	1,320.0	1,166.1	153.82	8.581		
10,800.0	6,759.4	10,207.9	6,738.6	84.4	78.5	89.09	3,995.3	-226.1	1,320.0	1,162.4	157.59	8.376		
10,900.0	6,769.3	10,307.9	6,748.5	86.2	80.3	89.09	4,094.8	-226.1	1,320.0	1,158.6	161.36	8.180		
11,000.0	6,779.3	10,407.9	6,758.4	87.9	82.2	89.09	4,194.3	-226.1	1,320.0	1,154.8	165.14	7.993		
11,100.0	6,789.2	10,507.9	6,768.4	89.7	84.1	89.09	4,293.8	-226.1	1,319.9	1,151.0	168.92	7.814		
11,200.0	6,799.1	10,607.9	6,778.3	91.5	86.0	89.09	4,393.3	-226.1	1,319.9	1,147.2	172.70	7.643		
11,300.0	6,809.1	10,707.9	6,788.2	93.3	87.9	89.09	4,492.8	-226.1	1,319.9	1,143.5	176.48	7.479		
11,400.0	6,819.0	10,807.9	6,798.2	95.0	89.8	89.09	4,592.3	-226.1	1,319.9	1,139.7	180.27	7.322		
11,500.0	6,828.9	10,907.9	6,808.1	96.8	91.7	89.09	4,691.8	-226.1	1,319.9	1,135.9	184.06	7.171		
11,600.0	6,838.9	11,007.9	6,818.0	98.6	93.6	89.09	4,791.3	-226.1	1,319.9	1,132.1	187.85	7.027		
11,700.0	6,848.8	11,107.9	6,828.0	100.4	95.5	89.09	4,890.8	-226.1	1,319.9	1,128.3	191.64	6.887		
11,800.0	6,858.7	11,207.9	6,837.9	102.3	97.4	89.09	4,990.3	-226.0	1,319.9	1,124.5	195.44	6.754		
11,900.0	6,868.7	11,307.9	6,847.8	104.1	99.3	89.09	5,089.8	-226.0	1,319.9	1,120.7	199.23	6.625		
12,000.0	6,878.6	11,407.9	6,857.8	105.9	101.2	89.09	5,189.3	-226.0	1,319.9	1,116.9	203.03	6.501		
12,100.0	6,888.5	11,507.9	6,867.7	107.7	103.1	89.09	5,288.9	-226.0	1,319.9	1,113.1	206.83	6.382		
12,200.0	6,898.5	11,607.9	6,877.6	109.5	105.0	89.09	5,388.4	-226.0	1,319.9	1,109.3	210.63	6.266		
12,300.0	6,908.4	11,707.9	6,887.6	111.4	106.9	89.09	5,487.9	-226.0	1,319.9	1,105.5	214.44	6.155		
12,400.0	6,918.3	11,807.9	6,897.5	113.2	108.8	89.09	5,587.4	-226.0	1,319.9	1,101.6	218.24	6.048		
12,500.0	6,928.3	11,907.9	6,907.4	115.0	110.7	89.09	5,686.9	-226.0	1,319.9	1,097.8	222.05	5.944		
12,600.0	6,938.2	12,007.9	6,917.4	116.9	112.7	89.09	5,786.4	-226.0	1,319.9	1,094.0	225.85	5.844		
12,700.0	6,948.1	12,107.9	6,927.3	118.7	114.6	89.09	5,885.9	-226.0	1,319.9	1,090.2	229.66	5.747		
12,800.0	6,958.1	12,207.9	6,937.2	120.5	116.4	89.09	5,985.4	-226.0	1,319.9	1,086.4	233.44	5.654		
12,831.9	6,961.2	12,239.7	6,940.4	121.1	116.9	89.09	6,017.1	-226.0	1,319.9	1,085.3	234.54	5.628		
12,839.6	6,962.0	12,246.1	6,941.0	121.3	117.0	89.09	6,023.4	-226.0	1,319.9	1,085.1	234.78	5.622		
12,840.2	6,962.1	12,246.1	6,941.0	121.4	117.0	89.09	6,023.4	-226.0	1,319.9	1,085.1	234.79	5.621		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	24.63	81.8	37.5	90.0					
100.0	100.0	101.2	101.2	0.1	0.1	24.63	81.8	37.5	90.0	89.8	0.19	470.132		
200.0	200.0	201.2	201.2	0.3	0.3	24.63	81.8	37.5	90.0	89.4	0.64	140.446		
300.0	300.0	301.2	301.2	0.5	0.5	24.63	81.8	37.5	90.0	88.9	1.09	82.554		
400.0	400.0	401.2	401.2	0.8	0.8	24.63	81.8	37.5	90.0	88.5	1.54	58.458		
500.0	500.0	501.2	501.2	1.0	1.0	24.63	81.8	37.5	90.0	88.0	1.99	45.250		
600.0	600.0	601.2	601.2	1.2	1.2	24.63	81.8	37.5	90.0	87.6	2.44	36.911		
700.0	700.0	701.2	701.2	1.4	1.4	24.63	81.8	37.5	90.0	87.1	2.89	31.167		
800.0	800.0	801.2	801.2	1.7	1.7	24.63	81.8	37.5	90.0	86.7	3.34	26.970		
900.0	900.0	901.2	901.2	1.9	1.9	24.63	81.8	37.5	90.0	86.2	3.79	23.769		
1,000.0	1,000.0	1,001.2	1,001.2	2.1	2.1	24.63	81.8	37.5	90.0	85.8	4.24	21.247		
1,100.0	1,100.0	1,101.2	1,101.2	2.3	2.3	24.63	81.8	37.5	90.0	85.3	4.69	19.209		
1,200.0	1,200.0	1,201.2	1,201.2	2.6	2.6	24.63	81.8	37.5	90.0	84.9	5.14	17.528		
1,300.0	1,300.0	1,301.2	1,301.2	2.8	2.8	24.63	81.8	37.5	90.0	84.4	5.59	16.118		
1,400.0	1,400.0	1,401.2	1,401.2	3.0	3.0	24.63	81.8	37.5	90.0	84.0	6.04	14.917		
1,500.0	1,500.0	1,501.2	1,501.2	3.2	3.2	24.63	81.8	37.5	90.0	83.5	6.48	13.883		
1,600.0	1,600.0	1,601.2	1,601.2	3.5	3.5	24.63	81.8	37.5	90.0	83.1	6.93	12.983		
1,700.0	1,700.0	1,701.2	1,701.2	3.7	3.7	24.63	81.8	37.5	90.0	82.6	7.38	12.193		
1,800.0	1,800.0	1,801.2	1,801.2	3.9	3.9	24.63	81.8	37.5	90.0	82.2	7.83	11.493		
1,900.0	1,900.0	1,901.2	1,901.2	4.1	4.1	24.63	81.8	37.5	90.0	81.7	8.28	10.869		
2,000.0	2,000.0	2,001.2	2,001.2	4.4	4.4	24.63	81.8	37.5	90.0	81.3	8.73	10.310		
2,100.0	2,100.0	2,101.2	2,101.2	4.6	4.6	24.63	81.8	37.5	90.0	80.8	9.18	9.805		
2,200.0	2,200.0	2,201.2	2,201.2	4.8	4.8	24.63	81.8	37.5	90.0	80.4	9.63	9.347		
2,300.0	2,300.0	2,301.2	2,301.2	5.0	5.0	24.63	81.8	37.5	90.0	79.9	10.08	8.931		
2,400.0	2,400.0	2,401.2	2,401.2	5.3	5.3	24.63	81.8	37.5	90.0	79.5	10.53	8.549		
2,500.0	2,500.0	2,501.2	2,501.2	5.5	5.5	24.63	81.8	37.5	90.0	79.1	10.98	8.199		
2,600.0	2,600.0	2,601.2	2,601.2	5.7	5.7	24.63	81.8	37.5	90.0	78.6	11.43	7.877		
2,700.0	2,700.0	2,701.2	2,701.2	5.9	5.9	24.63	81.8	37.5	90.0	78.2	11.88	7.579		
2,800.0	2,800.0	2,801.2	2,801.2	6.2	6.2	24.63	81.8	37.5	90.0	77.7	12.33	7.302		
2,900.0	2,900.0	2,901.2	2,901.2	6.4	6.4	24.63	81.8	37.5	90.0	77.3	12.78	7.046 CC, ES		
3,000.0	3,000.0	3,001.2	3,001.2	6.6	6.6	120.54	81.8	37.5	90.9	77.7	13.21	6.881		
3,100.0	3,099.8	3,101.0	3,101.0	6.8	6.8	123.25	81.8	37.5	93.7	80.0	13.63	6.873 SF		
3,200.0	3,199.5	3,200.7	3,200.7	7.0	7.1	127.39	81.8	37.5	98.7	84.7	14.04	7.030		
3,300.0	3,298.7	3,299.9	3,299.9	7.2	7.3	132.47	81.8	37.5	106.6	92.1	14.45	7.375		
3,400.0	3,397.5	3,398.7	3,398.7	7.5	7.5	137.91	81.8	37.5	117.8	102.9	14.85	7.930		
3,500.0	3,495.6	3,495.9	3,495.9	7.7	7.7	143.85	80.9	38.8	133.0	117.8	15.21	8.743		
3,600.0	3,593.1	3,591.0	3,590.9	8.0	7.9	150.25	78.0	42.6	153.4	137.9	15.52	9.882		
3,611.2	3,603.9	3,601.5	3,601.4	8.0	7.9	150.96	77.6	43.2	156.0	140.5	15.55	10.031		
3,700.0	3,690.0	3,684.1	3,683.6	8.3	8.1	156.41	73.4	48.8	178.6	162.7	15.87	11.250		
3,800.0	3,786.9	3,775.4	3,774.3	8.6	8.2	161.74	67.0	57.1	206.9	190.6	16.24	12.742		
3,900.0	3,883.9	3,864.8	3,862.8	9.0	8.4	166.35	59.2	67.6	238.3	221.7	16.61	14.348		
4,000.0	3,980.8	3,955.7	3,952.3	9.4	8.6	170.36	49.9	79.9	272.3	255.3	16.99	16.024		
4,100.0	4,077.7	4,048.0	4,043.3	9.8	8.8	173.58	40.3	92.6	307.4	290.0	17.39	17.675		
4,200.0	4,174.7	4,140.4	4,134.3	10.2	9.1	176.15	30.7	105.3	343.2	325.4	17.80	19.277		
4,300.0	4,271.6	4,232.7	4,225.2	10.6	9.3	178.24	21.2	117.9	379.5	361.3	18.23	20.823		
4,400.0	4,368.5	4,325.1	4,316.2	11.0	9.5	179.97	11.6	130.6	416.2	397.6	18.66	22.308		
4,500.0	4,465.5	4,417.4	4,407.2	11.4	9.8	-178.58	2.0	143.3	453.2	434.1	19.10	23.729		
4,600.0	4,562.4	4,509.8	4,498.2	11.9	10.1	-177.35	-7.5	156.0	490.3	470.8	19.55	25.087		
4,700.0	4,659.3	4,602.1	4,589.1	12.3	10.3	-176.29	-17.1	168.6	527.7	507.7	20.00	26.384		
4,800.0	4,756.3	4,694.5	4,680.1	12.8	10.6	-175.37	-26.7	181.3	565.2	544.7	20.46	27.620		
4,900.0	4,853.2	4,786.8	4,771.1	13.3	10.9	-174.56	-36.2	194.0	602.8	581.8	20.93	28.799		
5,000.0	4,950.1	4,879.2	4,862.1	13.7	11.2	-173.85	-45.8	206.7	640.4	619.0	21.40	29.922		

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 2-6H
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 2-6H	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	5,047.1	4,971.5	4,953.0	14.2	11.5	-173.22	-55.4	219.3	678.2	656.3	21.88	30.993		
5,200.0	5,144.0	5,063.9	5,044.0	14.7	11.7	-172.65	-65.0	232.0	716.0	693.6	22.37	32.014		
5,300.0	5,240.9	5,156.2	5,135.0	15.2	12.0	-172.14	-74.5	244.7	753.9	731.0	22.85	32.988		
5,400.0	5,337.9	5,248.6	5,226.0	15.6	12.4	-171.68	-84.1	257.4	791.8	768.5	23.35	33.917		
5,500.0	5,434.8	5,340.9	5,316.9	16.1	12.7	-171.26	-93.7	270.0	829.8	805.9	23.84	34.803		
5,602.7	5,534.4	5,435.8	5,410.4	16.6	13.0	-170.86	-103.5	283.1	868.8	844.4	24.36	35.671		
5,650.0	5,579.8	5,478.9	5,452.8	16.9	13.1	-170.43	-107.9	289.0	888.2	863.8	24.38	36.431		
5,700.0	5,626.8	5,523.0	5,496.2	17.2	13.3	-169.96	-112.5	295.0	911.7	887.3	24.35	37.442		
5,750.0	5,672.4	5,565.3	5,538.0	17.6	13.4	-169.45	-116.9	300.8	938.2	913.9	24.27	38.663		
5,800.0	5,716.6	5,612.6	5,584.6	18.0	13.6	-168.95	-120.9	307.3	967.4	943.3	24.14	40.071		
5,850.0	5,759.0	5,660.5	5,632.1	18.5	13.7	-168.64	-122.0	313.6	999.0	975.0	23.97	41.684		
5,900.0	5,799.4	5,705.4	5,676.6	19.0	13.8	-168.49	-120.0	319.3	1,032.9	1,009.1	23.73	43.517		
5,950.0	5,837.7	5,746.9	5,717.6	19.6	13.9	-168.43	-115.8	324.3	1,068.9	1,045.5	23.46	45.570		
6,000.0	5,873.7	5,784.6	5,754.5	20.3	14.0	-168.40	-109.8	328.7	1,107.1	1,084.0	23.15	47.831		
6,050.0	5,907.1	5,818.2	5,787.2	21.0	14.0	-168.33	-102.9	332.5	1,147.4	1,124.6	22.82	50.274		
6,100.0	5,937.9	5,847.8	5,815.6	21.8	14.1	-168.14	-95.5	335.6	1,189.6	1,167.0	22.51	52.854		
6,150.0	5,965.8	5,873.1	5,839.8	22.6	14.1	-167.73	-88.3	338.2	1,233.5	1,211.2	22.23	55.492		
6,174.9	5,978.7	5,884.2	5,850.3	23.1	14.1	-167.40	-84.8	339.4	1,256.0	1,233.8	22.12	56.786		
6,200.0	5,991.2	5,894.9	5,860.3	23.5	14.1	-167.98	-81.4	340.4	1,278.7	1,256.6	22.18	57.665		
6,300.0	6,041.2	5,936.0	5,898.5	25.4	14.2	-170.16	-66.6	344.3	1,369.8	1,347.4	22.42	61.097		
6,324.9	6,053.7	5,946.0	5,907.7	25.8	14.2	-170.69	-62.7	345.2	1,392.6	1,370.1	22.49	61.932		
6,350.0	6,066.3	5,956.2	5,916.9	26.3	14.2	-178.20	-58.6	346.1	1,415.4	1,393.3	22.13	63.966		
6,400.0	6,091.6	5,978.1	5,936.7	27.2	14.2	167.37	-49.3	348.0	1,460.9	1,437.6	23.28	62.740		
6,450.0	6,117.2	6,002.1	5,958.0	28.1	14.3	154.40	-38.4	349.9	1,505.9	1,479.7	26.13	57.632		
6,500.0	6,142.8	6,028.5	5,981.0	28.9	14.3	143.24	-25.6	351.9	1,550.0	1,520.7	29.29	52.925		
6,550.0	6,168.2	6,057.4	6,005.6	29.8	14.3	133.82	-10.7	354.0	1,592.8	1,560.8	32.03	49.728		
6,600.0	6,193.2	6,089.0	6,031.9	30.7	14.3	125.89	6.8	356.1	1,634.1	1,599.9	34.16	47.830		
6,650.0	6,217.7	6,123.6	6,059.7	31.5	14.4	119.19	27.2	358.2	1,673.5	1,637.7	35.71	46.864		
6,700.0	6,241.3	6,161.4	6,089.0	32.3	14.4	113.50	51.1	360.2	1,710.7	1,673.9	36.74	46.557		
6,750.0	6,264.1	6,202.7	6,119.4	33.0	14.4	108.65	78.8	362.1	1,745.4	1,708.0	37.35	46.725		
6,800.0	6,285.7	6,247.6	6,150.8	33.7	14.4	104.50	110.9	363.7	1,777.4	1,739.7	37.62	47.242		
6,850.0	6,306.1	6,296.3	6,182.5	34.3	14.5	100.95	147.9	365.0	1,806.3	1,768.7	37.62	48.013		
6,900.0	6,325.0	6,348.9	6,213.8	34.9	14.6	97.93	190.2	365.9	1,832.0	1,794.6	37.44	48.937		
6,950.0	6,342.3	6,405.3	6,243.9	35.4	14.7	95.36	237.8	366.1	1,854.2	1,817.1	37.13	49.939		
7,000.0	6,357.9	6,450.9	6,266.7	35.9	14.8	93.19	277.3	366.1	1,872.8	1,836.1	36.75	50.963		
7,050.0	6,371.7	6,497.1	6,289.8	36.3	15.1	91.50	317.3	366.0	1,887.9	1,851.6	36.28	52.032		
7,100.0	6,383.6	6,543.7	6,313.1	36.7	15.4	90.26	357.7	366.0	1,899.4	1,863.6	35.85	52.989		
7,150.0	6,393.4	6,586.8	6,333.9	37.0	15.7	89.40	395.4	365.9	1,907.3	1,871.9	35.43	53.834		
7,200.0	6,401.2	6,630.0	6,352.0	37.3	16.1	88.86	434.7	365.9	1,911.6	1,876.5	35.11	54.454		
7,239.3	6,405.8	6,665.1	6,364.4	37.5	16.5	88.68	467.4	365.8	1,912.5	1,877.5	34.95	54.725		
7,300.0	6,411.8	6,720.9	6,380.1	37.7	17.0	88.99	521.0	365.7	1,912.2	1,876.0	36.15	52.890		
7,400.0	6,421.7	6,816.6	6,394.8	38.2	18.1	89.14	615.4	365.6	1,911.9	1,873.6	38.32	49.895		
7,500.0	6,431.7	6,916.6	6,404.7	38.8	19.4	89.14	715.0	365.5	1,911.8	1,871.0	40.76	46.901		
7,600.0	6,441.6	7,016.6	6,414.7	39.4	20.7	89.14	814.5	365.3	1,911.7	1,868.3	43.41	44.037		
7,700.0	6,451.5	7,116.6	6,424.6	40.1	22.1	89.14	914.0	365.2	1,911.5	1,865.3	46.23	41.352		
7,800.0	6,461.5	7,216.6	6,434.5	40.9	23.6	89.14	1,013.5	365.1	1,911.4	1,862.2	49.18	38.865		
7,900.0	6,471.4	7,316.6	6,444.5	41.8	25.2	89.14	1,113.0	364.9	1,911.2	1,859.0	52.25	36.579		
8,000.0	6,481.3	7,416.6	6,454.4	42.7	26.8	89.14	1,212.5	364.8	1,911.1	1,855.7	55.42	34.486		
8,100.0	6,491.3	7,516.6	6,464.3	43.7	28.4	89.14	1,312.0	364.7	1,911.0	1,852.3	58.66	32.575		
8,200.0	6,501.2	7,616.6	6,474.3	44.8	30.1	89.14	1,411.5	364.5	1,910.8	1,848.8	61.98	30.830		
8,300.0	6,511.1	7,716.6	6,484.2	45.9	31.8	89.14	1,511.0	364.4	1,910.7	1,845.3	65.35	29.237		
8,400.0	6,521.0	7,816.6	6,494.1	47.0	33.5	89.14	1,610.5	364.3	1,910.5	1,841.8	68.77	27.780		

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 2-6H
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 2-6H	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		
8,500.0	6,531.0	7,916.6	6,504.0	48.3	35.3	89.14	1,710.0	364.1	1,910.4	1,838.1	72.24	26.446		
8,600.0	6,540.9	8,016.6	6,514.0	49.5	37.1	89.14	1,809.5	364.0	1,910.2	1,834.5	75.74	25.221		
8,700.0	6,550.8	8,116.6	6,523.9	50.8	38.8	89.14	1,909.0	363.9	1,910.1	1,830.8	79.27	24.096		
8,800.0	6,560.8	8,216.6	6,533.8	52.2	40.6	89.14	2,008.5	363.7	1,910.0	1,827.1	82.83	23.058		
8,900.0	6,570.7	8,316.6	6,543.8	53.6	42.4	89.14	2,108.0	363.6	1,909.8	1,823.4	86.42	22.100		
9,000.0	6,580.6	8,416.6	6,553.7	55.0	44.2	89.14	2,207.5	363.5	1,909.7	1,819.7	90.02	21.214		
9,100.0	6,590.6	8,516.6	6,563.6	56.5	46.1	89.14	2,307.0	363.3	1,909.5	1,815.9	93.65	20.391		
9,200.0	6,600.5	8,616.6	6,573.6	58.0	47.9	89.14	2,406.5	363.2	1,909.4	1,812.1	97.29	19.626		
9,300.0	6,610.4	8,716.6	6,583.5	59.5	49.7	89.14	2,506.0	363.1	1,909.2	1,808.3	100.94	18.914		
9,400.0	6,620.4	8,816.6	6,593.4	61.0	51.6	89.14	2,605.6	362.9	1,909.1	1,804.5	104.61	18.249		
9,500.0	6,630.3	8,916.6	6,603.4	62.6	53.4	89.14	2,705.1	362.8	1,909.0	1,800.7	108.29	17.628		
9,600.0	6,640.2	9,016.6	6,613.3	64.2	55.3	89.14	2,804.6	362.6	1,908.8	1,796.8	111.99	17.045		
9,700.0	6,650.2	9,116.6	6,623.2	65.8	57.1	89.14	2,904.1	362.5	1,908.7	1,793.0	115.69	16.499		
9,800.0	6,660.1	9,216.6	6,633.2	67.4	59.0	89.14	3,003.6	362.4	1,908.5	1,789.1	119.40	15.985		
9,900.0	6,670.0	9,316.6	6,643.1	69.0	60.8	89.14	3,103.1	362.2	1,908.4	1,785.3	123.12	15.501		
10,000.0	6,680.0	9,416.6	6,653.0	70.7	62.7	89.14	3,202.6	362.1	1,908.3	1,781.4	126.84	15.044		
10,100.0	6,689.9	9,516.6	6,663.0	72.4	64.6	89.14	3,302.1	362.0	1,908.1	1,777.5	130.58	14.613		
10,200.0	6,699.8	9,616.6	6,672.9	74.1	66.5	89.14	3,401.6	361.8	1,908.0	1,773.7	134.32	14.205		
10,300.0	6,709.8	9,716.6	6,682.8	75.8	68.3	89.14	3,501.1	361.7	1,907.8	1,769.8	138.06	13.819		
10,400.0	6,719.7	9,816.6	6,692.8	77.5	70.2	89.14	3,600.6	361.6	1,907.7	1,765.9	141.81	13.452		
10,500.0	6,729.6	9,916.6	6,702.7	79.2	72.1	89.14	3,700.1	361.4	1,907.5	1,762.0	145.57	13.104		
10,600.0	6,739.6	10,016.6	6,712.6	80.9	74.0	89.14	3,799.6	361.3	1,907.4	1,758.1	149.33	12.773		
10,700.0	6,749.5	10,116.6	6,722.6	82.7	75.9	89.14	3,899.1	361.2	1,907.3	1,754.2	153.09	12.459		
10,800.0	6,759.4	10,216.6	6,732.5	84.4	77.8	89.14	3,998.6	361.0	1,907.1	1,750.3	156.86	12.158		
10,900.0	6,769.3	10,316.6	6,742.4	86.2	79.6	89.14	4,098.1	360.9	1,907.0	1,746.3	160.63	11.872		
11,000.0	6,779.3	10,416.6	6,752.3	87.9	81.5	89.14	4,197.6	360.8	1,906.8	1,742.4	164.40	11.599		
11,100.0	6,789.2	10,516.6	6,762.3	89.7	83.4	89.14	4,297.1	360.6	1,906.7	1,738.5	168.18	11.337		
11,200.0	6,799.1	10,616.6	6,772.2	91.5	85.3	89.14	4,396.6	360.5	1,906.5	1,734.6	171.96	11.087		
11,300.0	6,809.1	10,716.6	6,782.1	93.3	87.2	89.14	4,496.2	360.4	1,906.4	1,730.7	175.74	10.848		
11,400.0	6,819.0	10,816.6	6,792.1	95.0	89.1	89.14	4,595.7	360.2	1,906.3	1,726.7	179.53	10.618		
11,500.0	6,828.9	10,916.6	6,802.0	96.8	91.0	89.14	4,695.2	360.1	1,906.1	1,722.8	183.32	10.398		
11,600.0	6,838.9	11,016.6	6,811.9	98.6	92.9	89.14	4,794.7	360.0	1,906.0	1,718.9	187.11	10.187		
11,700.0	6,848.8	11,116.6	6,821.9	100.4	94.8	89.14	4,894.2	359.8	1,905.8	1,714.9	190.90	9.984		
11,800.0	6,858.7	11,216.6	6,831.8	102.3	96.7	89.14	4,993.7	359.7	1,905.7	1,711.0	194.69	9.788		
11,900.0	6,868.7	11,316.6	6,841.7	104.1	98.6	89.14	5,093.2	359.6	1,905.6	1,707.1	198.49	9.600		
12,000.0	6,878.6	11,416.6	6,851.7	105.9	100.5	89.14	5,192.7	359.4	1,905.4	1,703.1	202.29	9.419		
12,100.0	6,888.5	11,516.6	6,861.6	107.7	102.4	89.14	5,292.2	359.3	1,905.3	1,699.2	206.09	9.245		
12,200.0	6,898.5	11,616.6	6,871.5	109.5	104.3	89.14	5,391.7	359.1	1,905.1	1,695.2	209.89	9.077		
12,300.0	6,908.4	11,716.6	6,881.5	111.4	106.2	89.14	5,491.2	359.0	1,905.0	1,691.3	213.69	8.915		
12,400.0	6,918.3	11,816.6	6,891.4	113.2	108.1	89.14	5,590.7	358.9	1,904.8	1,687.3	217.49	8.758		
12,500.0	6,928.3	11,916.6	6,901.3	115.0	110.0	89.14	5,690.2	358.7	1,904.7	1,683.4	221.30	8.607		
12,600.0	6,938.2	12,016.6	6,911.3	116.9	111.9	89.14	5,789.7	358.6	1,904.6	1,679.5	225.11	8.461		
12,700.0	6,948.1	12,116.6	6,921.2	118.7	113.8	89.14	5,889.2	358.5	1,904.4	1,675.5	228.91	8.319		
12,800.0	6,958.1	12,216.6	6,931.1	120.5	115.7	89.14	5,988.7	358.3	1,904.3	1,671.6	232.72	8.183		
12,837.8	6,961.8	12,251.7	6,934.6	121.2	116.4	89.14	6,023.7	358.3	1,904.2	1,670.1	234.11	8.134		
12,839.6	6,962.0	12,251.7	6,934.6	121.3	116.4	89.14	6,023.7	358.3	1,904.2	1,670.1	234.15	8.133		
12,840.2	6,962.1	12,251.7	6,934.6	121.4	116.4	89.14	6,023.7	358.3	1,904.2	1,670.1	234.16	8.132		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	24.66	68.2	31.3	75.0					
100.0	100.0	101.1	101.1	0.1	0.1	24.66	68.2	31.3	75.0	74.8	0.19	392.215		
200.0	200.0	201.1	201.1	0.3	0.3	24.66	68.2	31.3	75.0	74.4	0.64	117.073		
300.0	300.0	301.1	301.1	0.5	0.5	24.66	68.2	31.3	75.0	73.9	1.09	68.805		
400.0	400.0	401.1	401.1	0.8	0.8	24.66	68.2	31.3	75.0	73.5	1.54	48.719		
500.0	500.0	501.1	501.1	1.0	1.0	24.66	68.2	31.3	75.0	73.0	1.99	37.710		
600.0	600.0	601.1	601.1	1.2	1.2	24.66	68.2	31.3	75.0	72.6	2.44	30.760		
700.0	700.0	701.1	701.1	1.4	1.4	24.66	68.2	31.3	75.0	72.1	2.89	25.973		
800.0	800.0	801.1	801.1	1.7	1.7	24.66	68.2	31.3	75.0	71.7	3.34	22.475		
900.0	900.0	901.1	901.1	1.9	1.9	24.66	68.2	31.3	75.0	71.2	3.79	19.807		
1,000.0	1,000.0	1,001.1	1,001.1	2.1	2.1	24.66	68.2	31.3	75.0	70.8	4.24	17.706		
1,100.0	1,100.0	1,101.1	1,101.1	2.3	2.3	24.66	68.2	31.3	75.0	70.3	4.69	16.008		
1,200.0	1,200.0	1,201.1	1,201.1	2.6	2.6	24.66	68.2	31.3	75.0	69.9	5.14	14.607		
1,300.0	1,300.0	1,301.1	1,301.1	2.8	2.8	24.66	68.2	31.3	75.0	69.4	5.59	13.431		
1,400.0	1,400.0	1,401.1	1,401.1	3.0	3.0	24.66	68.2	31.3	75.0	69.0	6.04	12.431		
1,500.0	1,500.0	1,501.1	1,501.1	3.2	3.2	24.66	68.2	31.3	75.0	68.5	6.48	11.569		
1,600.0	1,600.0	1,601.1	1,601.1	3.5	3.5	24.66	68.2	31.3	75.0	68.1	6.93	10.819		
1,700.0	1,700.0	1,701.1	1,701.1	3.7	3.7	24.66	68.2	31.3	75.0	67.6	7.38	10.160		
1,800.0	1,800.0	1,801.1	1,801.1	3.9	3.9	24.66	68.2	31.3	75.0	67.2	7.83	9.577		
1,900.0	1,900.0	1,901.1	1,901.1	4.1	4.1	24.66	68.2	31.3	75.0	66.7	8.28	9.057		
2,000.0	2,000.0	2,001.1	2,001.1	4.4	4.4	24.66	68.2	31.3	75.0	66.3	8.73	8.591		
2,100.0	2,100.0	2,101.1	2,101.1	4.6	4.6	24.66	68.2	31.3	75.0	65.8	9.18	8.171		
2,200.0	2,200.0	2,201.1	2,201.1	4.8	4.8	24.66	68.2	31.3	75.0	65.4	9.63	7.789		
2,300.0	2,300.0	2,301.1	2,301.1	5.0	5.0	24.66	68.2	31.3	75.0	64.9	10.08	7.442		
2,400.0	2,400.0	2,401.1	2,401.1	5.3	5.3	24.66	68.2	31.3	75.0	64.5	10.53	7.124		
2,500.0	2,500.0	2,501.1	2,501.1	5.5	5.5	24.66	68.2	31.3	75.0	64.0	10.98	6.833		
2,600.0	2,600.0	2,601.1	2,601.1	5.7	5.7	24.66	68.2	31.3	75.0	63.6	11.43	6.564		
2,700.0	2,700.0	2,701.1	2,701.1	5.9	5.9	24.66	68.2	31.3	75.0	63.1	11.88	6.315		
2,800.0	2,800.0	2,801.1	2,801.1	6.2	6.2	24.66	68.2	31.3	75.0	62.7	12.33	6.085		
2,900.0	2,900.0	2,901.1	2,901.1	6.4	6.4	24.66	68.2	31.3	75.0	62.2	12.78	5.871 CC, ES		
3,000.0	3,000.0	3,001.1	3,001.1	6.6	6.6	120.76	68.2	31.3	75.9	62.7	13.21	5.745 SF		
3,100.0	3,099.8	3,100.9	3,100.9	6.8	6.8	123.98	68.2	31.3	78.7	65.1	13.63	5.775		
3,200.0	3,199.5	3,200.0	3,200.0	7.0	7.1	129.08	68.1	31.7	84.1	70.0	14.03	5.990		
3,300.0	3,298.7	3,297.5	3,297.4	7.2	7.2	136.53	67.4	35.0	93.9	79.5	14.40	6.520		
3,400.0	3,397.5	3,393.1	3,392.8	7.5	7.4	144.81	65.9	41.4	109.9	95.1	14.75	7.448		
3,500.0	3,495.6	3,486.3	3,485.5	7.7	7.6	152.43	63.9	50.5	133.0	117.9	15.08	8.817		
3,600.0	3,593.1	3,576.4	3,574.9	8.0	7.8	158.75	61.3	62.2	163.4	148.0	15.39	10.615		
3,611.2	3,603.9	3,586.3	3,584.6	8.0	7.8	159.37	61.0	63.7	167.2	151.8	15.43	10.841		
3,700.0	3,690.0	3,663.7	3,661.0	8.3	8.0	163.83	58.2	76.1	199.6	183.9	15.76	12.670		
3,800.0	3,786.9	3,748.7	3,744.3	8.6	8.2	167.69	54.7	92.1	239.4	223.3	16.13	14.839		
3,900.0	3,883.9	3,831.3	3,824.9	9.0	8.5	170.68	50.7	110.0	282.3	265.8	16.51	17.094		
4,000.0	3,980.8	3,911.5	3,902.6	9.4	8.7	173.06	46.4	129.5	328.1	311.2	16.90	19.414		
4,100.0	4,077.7	3,989.4	3,977.4	9.8	9.0	175.00	41.7	150.5	376.5	359.2	17.29	21.781		
4,200.0	4,174.7	4,064.8	4,049.3	10.2	9.2	176.60	36.8	172.7	427.4	409.7	17.68	24.180		
4,300.0	4,271.6	4,144.6	4,124.8	10.6	9.6	178.04	31.2	197.8	480.3	462.2	18.08	26.566		
4,400.0	4,368.5	4,228.7	4,204.4	11.0	9.9	179.27	25.3	224.4	533.6	515.1	18.49	28.854		
4,500.0	4,465.5	4,312.8	4,284.0	11.4	10.3	-179.72	19.4	251.0	587.1	568.2	18.91	31.038		
4,600.0	4,562.4	4,396.9	4,363.5	11.9	10.7	-178.87	13.4	277.6	640.6	621.3	19.34	33.120		
4,700.0	4,659.3	4,481.0	4,443.1	12.3	11.2	-178.16	7.5	304.2	694.3	674.5	19.78	35.105		
4,800.0	4,756.3	4,565.1	4,522.6	12.8	11.6	-177.54	1.6	330.8	748.0	727.7	20.22	36.998		
4,900.0	4,853.2	4,649.2	4,602.2	13.3	12.0	-177.01	-4.3	357.5	801.7	781.1	20.66	38.804		
5,000.0	4,950.1	4,733.3	4,681.8	13.7	12.5	-176.55	-10.2	384.1	855.5	834.4	21.11	40.526		

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 2-6H
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 2-6H	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	5,047.1	4,817.4	4,761.3	14.2	13.0	-176.14	-16.1	410.7	909.4	887.8	21.56	42.168		
5,200.0	5,144.0	4,901.5	4,840.9	14.7	13.4	-175.77	-22.0	437.3	963.2	941.2	22.02	43.736		
5,300.0	5,240.9	4,985.6	4,920.4	15.2	13.9	-175.44	-28.0	463.9	1,017.1	994.6	22.49	45.231		
5,400.0	5,337.9	5,069.7	5,000.0	15.6	14.4	-175.15	-33.9	490.5	1,071.0	1,048.1	22.95	46.659		
5,500.0	5,434.8	5,153.8	5,079.6	16.1	14.9	-174.89	-39.8	517.1	1,125.0	1,101.5	23.43	48.023		
5,602.7	5,534.4	5,240.2	5,161.3	16.6	15.4	-174.64	-45.9	544.5	1,180.4	1,156.5	23.91	49.362		
5,650.0	5,579.8	5,279.1	5,198.1	16.9	15.7	-174.29	-48.6	556.8	1,207.2	1,183.3	23.88	50.546		
5,700.0	5,626.8	5,318.2	5,235.1	17.2	15.9	-173.88	-51.4	569.2	1,238.2	1,214.4	23.79	52.052		
5,750.0	5,672.4	5,355.1	5,270.0	17.6	16.1	-173.43	-53.9	580.9	1,271.9	1,248.3	23.63	53.820		
5,800.0	5,716.6	5,389.6	5,302.7	18.0	16.4	-172.90	-56.4	591.8	1,308.1	1,284.7	23.42	55.847		
5,850.0	5,759.0	5,421.6	5,332.9	18.5	16.6	-172.28	-58.6	601.9	1,346.6	1,323.4	23.17	58.121		
5,900.0	5,799.4	5,450.7	5,360.5	19.0	16.7	-171.53	-60.7	611.1	1,387.2	1,364.3	22.88	60.618		
5,950.0	5,837.7	5,477.0	5,385.3	19.6	16.9	-170.60	-62.5	619.4	1,429.7	1,407.1	22.59	63.289		
6,000.0	5,873.7	5,500.3	5,407.4	20.3	17.0	-169.39	-64.2	626.8	1,473.9	1,451.6	22.32	66.035		
6,050.0	5,907.1	5,520.4	5,426.4	21.0	17.2	-167.76	-65.6	633.2	1,519.6	1,497.5	22.14	68.652		
6,100.0	5,937.9	5,537.4	5,442.4	21.8	17.3	-165.43	-66.8	638.5	1,566.6	1,544.5	22.15	70.723		
6,150.0	5,965.8	5,551.0	5,455.3	22.6	17.4	-161.82	-67.7	642.8	1,614.7	1,592.0	22.63	71.342		
6,174.9	5,978.7	5,556.5	5,460.6	23.1	17.4	-159.17	-68.1	644.6	1,638.9	1,615.7	23.23	70.559		
6,200.0	5,991.2	5,561.7	5,465.4	23.5	17.4	-159.38	-68.5	646.2	1,663.4	1,640.1	23.35	71.244		
6,300.0	6,041.2	5,582.2	5,484.8	25.4	17.6	-160.18	-69.9	652.7	1,761.2	1,737.3	23.85	73.851		
6,324.9	6,053.7	5,587.3	5,489.7	25.8	17.6	-160.37	-70.3	654.3	1,785.5	1,761.6	23.98	74.471		
6,350.0	6,066.3	5,592.5	5,494.6	26.3	17.6	-173.61	-70.6	656.0	1,810.0	1,788.4	21.60	83.804		
6,400.0	6,091.6	5,602.8	5,504.4	27.2	17.7	161.19	-71.4	659.3	1,858.9	1,834.4	24.51	75.855		
6,450.0	6,117.2	5,613.2	5,514.2	28.1	17.7	141.57	-72.1	662.5	1,907.4	1,876.0	31.42	60.705		
6,500.0	6,142.8	5,623.5	5,523.9	28.9	17.8	127.51	-72.8	665.8	1,955.3	1,918.7	36.53	53.532		
6,550.0	6,168.2	5,633.6	5,533.5	29.8	17.9	117.21	-73.5	669.0	2,002.1	1,962.4	39.69	50.442		
6,600.0	6,193.2	5,643.5	5,542.9	30.7	17.9	109.29	-74.2	672.1	2,047.7	2,006.1	41.57	49.254		
6,650.0	6,217.7	5,653.1	5,551.9	31.5	18.0	102.92	-74.9	675.2	2,091.8	2,049.2	42.61	49.093		
6,700.0	6,241.3	5,662.4	5,560.7	32.3	18.1	97.61	-75.6	678.1	2,134.2	2,091.1	43.04	49.585		
6,750.0	6,264.1	5,671.2	5,569.0	33.0	18.1	93.10	-76.2	680.9	2,174.6	2,131.6	43.01	50.563		
6,800.0	6,285.7	5,679.5	5,576.8	33.7	18.2	89.21	-76.8	683.5	2,212.9	2,170.3	42.60	51.950		
6,850.0	6,306.1	5,687.2	5,584.1	34.3	18.2	85.84	-77.3	685.9	2,248.9	2,207.0	41.87	53.712		
6,900.0	6,325.0	5,694.2	5,590.8	34.9	18.3	82.91	-77.8	688.2	2,282.5	2,241.6	40.87	55.840		
6,950.0	6,342.3	5,700.6	5,596.9	35.4	18.3	80.38	-78.2	690.2	2,313.4	2,273.8	39.66	58.338		
7,000.0	6,357.9	5,706.3	5,602.2	35.9	18.3	78.20	-78.6	692.0	2,341.7	2,303.4	38.26	61.208		
7,050.0	6,371.7	5,711.2	5,606.8	36.3	18.4	76.34	-79.0	693.5	2,367.1	2,330.4	36.73	64.446		
7,100.0	6,383.6	5,715.2	5,610.7	36.7	18.4	74.78	-79.3	694.8	2,389.7	2,354.5	35.13	68.029		
7,150.0	6,393.4	5,718.4	5,613.7	37.0	18.4	73.51	-79.5	695.8	2,409.2	2,375.7	33.51	71.891		
7,200.0	6,401.2	5,720.8	5,615.9	37.3	18.4	72.51	-79.7	696.6	2,425.6	2,393.7	31.96	75.900		
7,239.3	6,405.8	5,722.0	5,617.1	37.5	18.4	71.90	-79.7	697.0	2,436.4	2,405.6	30.84	79.011		
7,300.0	6,411.8	5,723.5	5,618.5	37.7	18.4	71.93	-79.8	697.4	2,452.2	2,420.7	31.46	77.938		
7,400.0	6,421.7	5,725.9	5,620.7	38.2	18.5	71.99	-80.0	698.2	2,481.2	2,448.7	32.54	76.247		
7,500.0	6,431.7	5,728.3	5,623.0	38.8	18.5	72.05	-80.2	698.9	2,513.9	2,480.2	33.73	74.527		
7,600.0	6,441.6	5,730.7	5,625.3	39.4	18.5	72.11	-80.4	699.7	2,550.1	2,515.1	35.01	72.831		
7,700.0	6,451.5	7,230.1	6,438.9	40.1	27.5	89.69	910.8	1,020.4	2,566.5	2,519.8	46.68	54.978		
7,800.0	6,461.5	7,330.1	6,448.9	40.9	28.6	89.69	1,010.3	1,020.4	2,566.5	2,517.0	49.53	51.816		
7,900.0	6,471.4	7,430.1	6,458.8	41.8	29.7	89.69	1,109.8	1,020.3	2,566.4	2,513.9	52.51	48.879		
8,000.0	6,481.3	7,530.1	6,468.7	42.7	30.9	89.69	1,209.3	1,020.3	2,566.4	2,510.8	55.59	46.168		
8,100.0	6,491.3	7,630.1	6,478.7	43.7	32.3	89.69	1,308.8	1,020.3	2,566.4	2,507.6	58.76	43.675		
8,200.0	6,501.2	7,730.1	6,488.6	44.8	33.6	89.69	1,408.3	1,020.2	2,566.3	2,504.3	62.01	41.387		
8,300.0	6,511.1	7,830.1	6,498.5	45.9	35.1	89.69	1,507.8	1,020.2	2,566.3	2,501.0	65.32	39.287		
8,400.0	6,521.0	7,930.1	6,508.5	47.0	36.5	89.69	1,607.3	1,020.2	2,566.2	2,497.5	68.69	37.360		

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 2-6H
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 2-6H	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		
8,500.0	6,531.0	8,030.1	6,518.4	48.3	38.1	89.69	1,706.9	1,020.1	2,566.2	2,494.1	72.11	35.589		
8,600.0	6,540.9	8,130.1	6,528.3	49.5	39.6	89.69	1,806.4	1,020.1	2,566.2	2,490.6	75.56	33.961		
8,700.0	6,550.8	8,230.1	6,538.3	50.8	41.2	89.69	1,905.9	1,020.0	2,566.1	2,487.1	79.06	32.460		
8,800.0	6,560.8	8,330.1	6,548.2	52.2	42.9	89.69	2,005.4	1,020.0	2,566.1	2,483.5	82.58	31.074		
8,900.0	6,570.7	8,430.1	6,558.1	53.6	44.5	89.69	2,104.9	1,020.0	2,566.0	2,479.9	86.13	29.792		
9,000.0	6,580.6	8,530.1	6,568.1	55.0	46.2	89.69	2,204.4	1,019.9	2,566.0	2,476.3	89.71	28.605		
9,100.0	6,590.6	8,630.1	6,578.0	56.5	47.9	89.69	2,303.9	1,019.9	2,565.9	2,472.6	93.30	27.502		
9,200.0	6,600.5	8,730.1	6,587.9	58.0	49.6	89.69	2,403.4	1,019.9	2,565.9	2,469.0	96.92	26.475		
9,300.0	6,610.4	8,830.1	6,597.8	59.5	51.3	89.69	2,502.9	1,019.8	2,565.9	2,465.3	100.55	25.518		
9,400.0	6,620.4	8,930.1	6,607.8	61.0	53.1	89.69	2,602.4	1,019.8	2,565.8	2,461.6	104.20	24.625		
9,500.0	6,630.3	9,030.1	6,617.7	62.6	54.8	89.69	2,701.9	1,019.8	2,565.8	2,457.9	107.86	23.789		
9,600.0	6,640.2	9,130.1	6,627.6	64.2	56.6	89.69	2,801.4	1,019.7	2,565.7	2,454.2	111.53	23.005		
9,700.0	6,650.2	9,230.1	6,637.6	65.8	58.4	89.69	2,900.9	1,019.7	2,565.7	2,450.5	115.22	22.269		
9,800.0	6,660.1	9,330.1	6,647.5	67.4	60.2	89.69	3,000.4	1,019.7	2,565.7	2,446.7	118.91	21.577		
9,900.0	6,670.0	9,430.1	6,657.4	69.0	62.0	89.69	3,099.9	1,019.6	2,565.6	2,443.0	122.61	20.925		
10,000.0	6,680.0	9,530.1	6,667.4	70.7	63.8	89.69	3,199.4	1,019.6	2,565.6	2,439.2	126.32	20.309		
10,100.0	6,689.9	9,630.1	6,677.3	72.4	65.6	89.69	3,298.9	1,019.6	2,565.5	2,435.5	130.04	19.728		
10,200.0	6,699.8	9,730.1	6,687.2	74.1	67.4	89.69	3,398.4	1,019.5	2,565.5	2,431.7	133.77	19.178		
10,300.0	6,709.8	9,830.1	6,697.2	75.8	69.2	89.69	3,498.0	1,019.5	2,565.4	2,427.9	137.50	18.657		
10,400.0	6,719.7	9,930.1	6,707.1	77.5	71.0	89.69	3,597.5	1,019.5	2,565.4	2,424.2	141.24	18.163		
10,500.0	6,729.6	10,030.1	6,717.0	79.2	72.9	89.69	3,697.0	1,019.4	2,565.4	2,420.4	144.99	17.694		
10,600.0	6,739.6	10,130.1	6,727.0	80.9	74.7	89.69	3,796.5	1,019.4	2,565.3	2,416.6	148.73	17.248		
10,700.0	6,749.5	10,230.1	6,736.9	82.7	76.5	89.69	3,896.0	1,019.4	2,565.3	2,412.8	152.49	16.823		
10,800.0	6,759.4	10,330.1	6,746.8	84.4	78.4	89.69	3,995.5	1,019.3	2,565.2	2,409.0	156.25	16.418		
10,900.0	6,769.3	10,430.1	6,756.8	86.2	80.2	89.69	4,095.0	1,019.3	2,565.2	2,405.2	160.01	16.032		
11,000.0	6,779.3	10,530.1	6,766.7	87.9	82.1	89.69	4,194.5	1,019.3	2,565.2	2,401.4	163.77	15.663		
11,100.0	6,789.2	10,630.1	6,776.6	89.7	83.9	89.69	4,294.0	1,019.2	2,565.1	2,397.6	167.54	15.310		
11,200.0	6,799.1	10,730.1	6,786.6	91.5	85.8	89.69	4,393.5	1,019.2	2,565.1	2,393.8	171.32	14.973		
11,300.0	6,809.1	10,830.1	6,796.5	93.3	87.7	89.69	4,493.0	1,019.2	2,565.0	2,389.9	175.09	14.650		
11,400.0	6,819.0	10,930.1	6,806.4	95.0	89.5	89.69	4,592.5	1,019.1	2,565.0	2,386.1	178.87	14.340		
11,500.0	6,828.9	11,030.1	6,816.4	96.8	91.4	89.69	4,692.0	1,019.1	2,565.0	2,382.3	182.65	14.043		
11,600.0	6,838.9	11,130.1	6,826.3	98.6	93.3	89.69	4,791.5	1,019.1	2,564.9	2,378.5	186.44	13.758		
11,700.0	6,848.8	11,230.1	6,836.2	100.4	95.1	89.69	4,891.0	1,019.0	2,564.9	2,374.6	190.22	13.484		
11,800.0	6,858.7	11,330.1	6,846.1	102.3	97.0	89.69	4,990.5	1,019.0	2,564.8	2,370.8	194.01	13.220		
11,900.0	6,868.7	11,430.1	6,856.1	104.1	98.9	89.69	5,090.0	1,019.0	2,564.8	2,367.0	197.80	12.966		
12,000.0	6,878.6	11,530.1	6,866.0	105.9	100.8	89.69	5,189.5	1,018.9	2,564.7	2,363.2	201.59	12.722		
12,100.0	6,888.5	11,630.1	6,875.9	107.7	102.6	89.69	5,289.1	1,018.9	2,564.7	2,359.3	205.39	12.487		
12,200.0	6,898.5	11,730.1	6,885.9	109.5	104.5	89.69	5,388.6	1,018.9	2,564.7	2,355.5	209.18	12.260		
12,300.0	6,908.4	11,830.1	6,895.8	111.4	106.4	89.69	5,488.1	1,018.8	2,564.6	2,351.6	212.98	12.042		
12,400.0	6,918.3	11,930.1	6,905.7	113.2	108.3	89.69	5,587.6	1,018.8	2,564.6	2,347.8	216.78	11.830		
12,500.0	6,928.3	12,030.1	6,915.7	115.0	110.2	89.69	5,687.1	1,018.8	2,564.5	2,344.0	220.58	11.626		
12,600.0	6,938.2	12,130.1	6,925.6	116.9	112.1	89.69	5,786.6	1,018.7	2,564.5	2,340.1	224.38	11.429		
12,700.0	6,948.1	12,230.1	6,935.5	118.7	113.9	89.69	5,886.1	1,018.7	2,564.5	2,336.3	228.19	11.238		
12,800.0	6,958.1	12,330.1	6,945.5	120.5	115.8	89.69	5,985.6	1,018.7	2,564.4	2,332.4	231.99	11.054		
12,839.6	6,962.0	12,368.6	6,949.3	121.3	116.6	89.69	6,023.9	1,018.6	2,564.4	2,330.9	233.48	10.983		
12,839.6	6,962.0	12,368.6	6,949.3	121.3	116.6	89.69	6,023.9	1,018.6	2,564.4	2,330.9	233.48	10.983		
12,840.2	6,962.1	12,368.6	6,949.3	121.4	116.6	89.69	6,023.9	1,018.6	2,564.4	2,330.9	233.49	10.983		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	24.65	54.6	25.0	60.0					
100.0	100.0	101.0	101.0	0.1	0.1	24.65	54.6	25.0	60.0	59.8	0.19	314.265		
200.0	200.0	201.0	201.0	0.3	0.3	24.65	54.6	25.0	60.0	59.4	0.64	93.728		
300.0	300.0	301.0	301.0	0.5	0.5	24.65	54.6	25.0	60.0	59.0	1.09	55.077		
400.0	400.0	401.0	401.0	0.8	0.8	24.65	54.6	25.0	60.0	58.5	1.54	38.996		
500.0	500.0	501.0	501.0	1.0	1.0	24.65	54.6	25.0	60.0	58.1	1.99	30.184		
600.0	600.0	601.0	601.0	1.2	1.2	24.65	54.6	25.0	60.0	57.6	2.44	24.620		
700.0	700.0	701.0	701.0	1.4	1.4	24.65	54.6	25.0	60.0	57.2	2.89	20.788		
800.0	800.0	801.0	801.0	1.7	1.7	24.65	54.6	25.0	60.0	56.7	3.34	17.988		
900.0	900.0	901.0	901.0	1.9	1.9	24.65	54.6	25.0	60.0	56.3	3.79	15.853		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.65	54.6	25.0	60.0	55.8	4.24	14.171		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.65	54.6	25.0	60.0	55.4	4.69	12.812		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.65	54.6	25.0	60.0	54.9	5.14	11.690		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.65	54.6	25.0	60.0	54.5	5.59	10.750		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.65	54.6	25.0	60.0	54.0	6.03	9.949		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.65	54.6	25.0	60.0	53.6	6.48	9.259		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.65	54.6	25.0	60.0	53.1	6.93	8.659		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.65	54.6	25.0	60.0	52.7	7.38	8.132		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.65	54.6	25.0	60.0	52.2	7.83	7.665		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.65	54.6	25.0	60.0	51.8	8.28	7.249		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.65	54.6	25.0	60.0	51.3	8.73	6.876		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.65	54.6	25.0	60.0	50.9	9.18	6.539		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.65	54.6	25.0	60.0	50.4	9.63	6.234		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.65	54.6	25.0	60.0	50.0	10.08	5.956		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.65	54.6	25.0	60.0	49.5	10.53	5.702		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.65	54.6	25.0	60.0	49.1	10.98	5.468		
2,600.0	2,600.0	2,601.0	2,601.0	5.7	5.7	24.65	54.6	25.0	60.0	48.6	11.43	5.253		
2,700.0	2,700.0	2,701.0	2,701.0	5.9	5.9	24.65	54.6	25.0	60.0	48.2	11.88	5.054		
2,800.0	2,800.0	2,801.0	2,801.0	6.2	6.2	24.65	54.6	25.0	60.0	47.7	12.33	4.870		
2,866.3	2,866.3	2,867.3	2,867.3	6.3	6.3	24.65	54.6	25.0	60.0	47.4	12.63	4.755 CC		
2,900.0	2,900.0	2,901.0	2,901.0	6.4	6.4	24.65	54.6	25.0	60.0	47.3	12.78	4.699 ES		
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	122.52	54.4	26.8	61.6	48.4	13.19	4.667 SF		
3,100.0	3,099.8	3,098.6	3,098.5	6.8	6.8	130.24	54.0	31.9	67.0	53.5	13.58	4.936		
3,200.0	3,199.5	3,195.7	3,195.2	7.0	7.0	140.20	53.3	40.2	78.3	64.3	13.96	5.610		
3,300.0	3,298.7	3,290.7	3,289.5	7.2	7.2	149.71	52.3	51.5	96.9	82.6	14.32	6.765		
3,400.0	3,397.5	3,383.1	3,380.8	7.5	7.4	157.37	51.1	65.5	123.2	108.5	14.67	8.399		
3,500.0	3,495.6	3,472.3	3,468.5	7.7	7.6	163.07	49.7	81.8	156.9	141.9	14.99	10.463		
3,600.0	3,593.1	3,557.9	3,552.1	8.0	7.9	167.22	48.1	100.0	197.4	182.1	15.30	12.899		
3,611.2	3,603.9	3,567.2	3,561.2	8.0	7.9	167.61	47.9	102.1	202.3	187.0	15.34	13.193		
3,700.0	3,690.0	3,640.2	3,632.0	8.3	8.1	170.38	46.4	119.8	243.0	227.3	15.67	15.508		
3,800.0	3,786.9	3,719.9	3,708.8	8.6	8.4	172.69	44.5	141.1	291.5	275.4	16.05	18.165		
3,900.0	3,883.9	3,800.9	3,786.2	9.0	8.7	174.52	42.5	164.8	342.4	325.9	16.44	20.832		
4,000.0	3,980.8	3,886.3	3,867.7	9.4	9.0	175.97	40.3	190.1	393.8	377.0	16.83	23.399		
4,100.0	4,077.7	3,971.7	3,949.2	9.8	9.4	177.09	38.1	215.3	445.4	428.2	17.23	25.847		
4,200.0	4,174.7	4,057.0	4,030.7	10.2	9.8	177.98	36.0	240.6	497.2	479.5	17.64	28.177		
4,300.0	4,271.6	4,142.4	4,112.3	10.6	10.2	178.70	33.8	265.9	548.9	530.9	18.06	30.396		
4,400.0	4,368.5	4,227.7	4,193.8	11.0	10.6	179.30	31.6	291.2	600.8	582.3	18.48	32.507		
4,500.0	4,465.5	4,313.1	4,275.3	11.4	11.0	179.81	29.4	316.4	652.6	633.7	18.91	34.516		
4,600.0	4,562.4	4,398.5	4,356.8	11.9	11.4	-179.76	27.2	341.7	704.5	685.2	19.34	36.428		
4,700.0	4,659.3	4,483.8	4,438.3	12.3	11.8	-179.39	25.1	367.0	756.5	736.7	19.78	38.247		
4,800.0	4,756.3	4,569.2	4,519.8	12.8	12.3	-179.07	22.9	392.2	808.4	788.2	20.22	39.980		
4,900.0	4,853.2	4,654.6	4,601.3	13.3	12.7	-178.79	20.7	417.5	860.4	839.7	20.67	41.631		

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 2-6H
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 2-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 7-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,950.1	4,739.9	4,682.8	13.7	13.2	-178.54	18.5	442.8	912.4	891.3	21.12	43.205		
5,100.0	5,047.1	4,825.3	4,764.3	14.2	13.7	-178.31	16.3	468.1	964.4	942.8	21.57	44.706		
5,200.0	5,144.0	4,910.7	4,845.8	14.7	14.1	-178.11	14.1	493.3	1,016.4	994.3	22.03	46.138		
5,300.0	5,240.9	4,996.0	4,927.3	15.2	14.6	-177.93	12.0	518.6	1,068.4	1,045.9	22.49	47.505		
5,400.0	5,337.9	5,081.4	5,008.8	15.6	15.1	-177.76	9.8	543.9	1,120.4	1,097.4	22.95	48.809		
5,500.0	5,434.8	5,166.7	5,090.3	16.1	15.6	-177.61	7.6	569.1	1,172.4	1,149.0	23.42	50.056		
5,602.7	5,534.4	5,254.4	5,174.1	16.6	16.1	-177.47	5.4	595.1	1,225.9	1,202.0	23.91	51.281		
5,650.0	5,579.8	5,294.0	5,211.8	16.9	16.3	-177.30	4.3	606.8	1,251.8	1,227.9	23.87	52.449		
5,700.0	5,626.8	5,333.8	5,249.8	17.2	16.5	-177.10	3.3	618.6	1,282.0	1,258.2	23.76	53.950		
5,750.0	5,672.4	5,371.4	5,285.8	17.6	16.7	-176.88	2.4	629.8	1,314.8	1,291.2	23.59	55.728		
5,800.0	5,716.6	5,406.7	5,319.5	18.0	16.9	-176.63	1.5	640.2	1,350.3	1,326.9	23.37	57.785		
5,850.0	5,759.0	5,439.4	5,350.7	18.5	17.1	-176.34	0.6	649.9	1,388.1	1,365.0	23.09	60.120		
5,900.0	5,799.4	5,469.5	5,379.4	19.0	17.3	-175.98	-0.1	658.8	1,428.0	1,405.3	22.76	62.732		
5,950.0	5,837.7	5,496.6	5,405.3	19.6	17.5	-175.55	-0.8	666.8	1,470.0	1,447.6	22.41	65.607		
6,000.0	5,873.7	5,520.8	5,428.4	20.3	17.6	-174.99	-1.5	674.0	1,513.8	1,491.7	22.03	68.716		
6,050.0	5,907.1	5,541.8	5,448.5	21.0	17.7	-174.25	-2.0	680.2	1,559.1	1,537.4	21.65	71.999		
6,100.0	5,937.9	5,559.7	5,465.5	21.8	17.8	-173.20	-2.4	685.5	1,605.8	1,584.5	21.32	75.326		
6,150.0	5,965.8	5,574.2	5,479.4	22.6	17.9	-171.59	-2.8	689.8	1,653.6	1,632.5	21.09	78.394		
6,174.9	5,978.7	5,580.2	5,485.2	23.1	18.0	-170.43	-3.0	691.6	1,677.8	1,656.7	21.07	79.613		
6,200.0	5,991.2	5,585.9	5,490.5	23.5	18.0	-170.52	-3.1	693.2	1,702.2	1,681.0	21.18	80.360		
6,300.0	6,041.2	5,608.2	5,511.9	25.4	18.1	-170.87	-3.7	699.9	1,799.6	1,778.0	21.63	83.208		
6,324.9	6,053.7	5,613.8	5,517.2	25.8	18.1	-170.95	-3.8	701.5	1,823.9	1,802.2	21.74	83.885		
6,350.0	6,066.3	5,619.5	5,522.6	26.3	18.2	176.83	-4.0	703.2	1,848.3	1,827.0	21.35	86.581		
6,400.0	6,091.6	5,631.0	5,533.6	27.2	18.2	155.12	-4.3	706.6	1,896.9	1,870.5	26.39	71.869		
6,450.0	6,117.2	5,642.6	5,544.7	28.1	18.3	138.57	-4.6	710.0	1,944.9	1,912.4	32.56	59.728		
6,500.0	6,142.8	5,654.4	5,556.0	28.9	18.4	126.36	-4.9	713.5	1,992.2	1,955.2	36.94	53.927		
6,550.0	6,168.2	5,666.2	5,567.3	29.8	18.5	117.08	-5.2	717.0	2,038.3	1,998.5	39.73	51.296		
6,600.0	6,193.2	5,676.4	5,577.0	30.7	18.5	109.64	-5.4	720.0	2,083.0	2,041.5	41.45	50.250		
6,650.0	6,217.7	5,676.4	5,577.0	31.5	18.5	103.08	-5.4	720.0	2,126.1	2,083.7	42.47	50.063		
6,700.0	6,241.3	5,676.4	5,577.0	32.3	18.5	97.57	-5.4	720.0	2,167.5	2,124.7	42.86	50.571		
6,750.0	6,264.1	5,676.4	5,577.0	33.0	18.5	92.86	-5.4	720.0	2,206.9	2,164.1	42.77	51.600		
6,800.0	6,285.7	5,687.6	5,587.6	33.7	18.6	89.20	-5.7	723.4	2,244.0	2,201.7	42.29	53.065		
6,850.0	6,306.1	5,689.8	5,589.8	34.3	18.6	85.73	-5.8	724.1	2,278.8	2,237.3	41.51	54.902		
6,900.0	6,325.0	5,700.0	5,599.4	34.9	18.7	82.98	-6.1	727.4	2,311.2	2,270.7	40.48	57.096		
6,950.0	6,342.3	5,700.0	5,599.4	35.4	18.7	80.31	-6.1	727.4	2,340.8	2,301.6	39.23	59.675		
7,000.0	6,357.9	5,700.0	5,599.4	35.9	18.7	78.02	-6.1	727.4	2,367.7	2,329.9	37.81	62.624		
7,050.0	6,371.7	5,700.0	5,599.4	36.3	18.7	76.09	-6.1	727.4	2,391.8	2,355.5	36.28	65.927		
7,100.0	6,383.6	5,700.0	5,599.4	36.7	18.7	74.48	-6.1	727.4	2,412.8	2,378.1	34.70	69.540		
7,150.0	6,393.4	5,700.0	5,599.4	37.0	18.7	73.18	-6.1	727.4	2,430.9	2,397.8	33.13	73.376		
7,200.0	6,401.2	5,700.0	5,599.4	37.3	18.7	72.16	-6.1	727.4	2,445.8	2,414.2	31.65	77.279		
7,239.3	6,405.8	5,700.0	5,599.4	37.5	18.7	71.56	-6.1	727.4	2,455.4	2,424.8	30.60	80.234		
7,300.0	6,411.8	5,700.0	5,599.4	37.7	18.7	71.56	-6.1	727.4	2,469.3	2,438.1	31.22	79.091		
7,400.0	6,421.7	5,700.0	5,599.4	38.2	18.7	71.56	-6.1	727.4	2,495.3	2,463.0	32.28	77.290		
7,500.0	6,431.7	5,700.0	5,599.4	38.8	18.7	71.56	-6.1	727.4	2,524.9	2,491.5	33.46	75.466		
7,600.0	6,441.6	5,700.0	5,599.4	39.4	18.7	71.56	-6.1	727.4	2,558.2	2,523.4	34.72	73.673		
7,700.0	6,451.5	5,700.0	5,599.4	40.1	18.7	71.56	-6.1	727.4	2,594.8	2,558.8	36.07	71.947		
7,800.0	6,461.5	5,700.0	5,599.4	40.9	18.7	71.56	-6.1	727.4	2,634.8	2,597.3	37.47	70.312		
7,900.0	6,471.4	5,700.0	5,599.4	41.8	18.7	71.56	-6.1	727.4	2,677.9	2,638.9	38.93	68.781		
8,000.0	6,481.3	5,700.0	5,599.4	42.7	18.7	71.56	-6.1	727.4	2,724.0	2,683.5	40.44	67.359		
8,100.0	6,491.3	5,700.0	5,599.4	43.7	18.7	71.56	-6.1	727.4	2,772.9	2,730.9	41.98	66.046		
8,200.0	6,501.2	5,700.0	5,599.4	44.8	18.7	71.56	-6.1	727.4	2,824.5	2,780.9	43.56	64.840		
8,300.0	6,511.1	5,700.0	5,599.4	45.9	18.7	71.56	-6.1	727.4	2,878.7	2,833.5	45.17	63.736		

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 2-6H
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 2-6H	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		
8,400.0	6,521.0	5,700.0	5,599.4	47.0	18.7	71.56	-6.1	727.4	2,935.2	2,888.4	46.79	62.727		
8,500.0	6,531.0	5,700.0	5,599.4	48.3	18.7	71.56	-6.1	727.4	2,994.1	2,945.6	48.44	61.807		
8,600.0	6,540.9	5,720.6	5,618.7	49.5	18.8	72.05	-6.7	734.4	3,054.8	3,004.5	50.26	60.775		
8,700.0	6,550.8	5,721.9	5,620.0	50.8	18.8	72.08	-6.7	734.9	3,117.7	3,065.8	51.96	60.003		
8,800.0	6,560.8	5,723.3	5,621.2	52.2	18.8	72.11	-6.8	735.4	3,182.6	3,128.9	53.67	59.300		
8,900.0	6,570.7	8,889.9	6,571.8	53.6	50.4	90.00	2,103.5	1,680.1	3,226.1	3,140.0	86.05	37.490		
9,000.0	6,580.6	8,989.9	6,581.8	55.0	51.7	90.00	2,203.0	1,680.1	3,226.1	3,136.5	89.60	36.006		
9,100.0	6,590.6	9,089.9	6,591.7	56.5	53.1	90.00	2,302.5	1,680.0	3,226.0	3,132.9	93.17	34.626		
9,200.0	6,600.5	9,189.9	6,601.6	58.0	54.5	90.00	2,402.0	1,680.0	3,226.0	3,129.2	96.76	33.341		
9,300.0	6,610.4	9,289.9	6,611.6	59.5	55.9	90.00	2,501.6	1,680.0	3,225.9	3,125.6	100.37	32.142		
9,400.0	6,620.4	9,389.9	6,621.5	61.0	57.4	90.00	2,601.1	1,679.9	3,225.9	3,121.9	103.99	31.021		
9,500.0	6,630.3	9,489.9	6,631.4	62.6	58.9	90.00	2,700.6	1,679.9	3,225.9	3,118.2	107.63	29.971		
9,600.0	6,640.2	9,589.9	6,641.3	64.2	60.5	90.00	2,800.1	1,679.9	3,225.8	3,114.6	111.29	28.986		
9,700.0	6,650.2	9,689.9	6,651.3	65.8	62.0	90.00	2,899.6	1,679.9	3,225.8	3,110.9	114.95	28.062		
9,800.0	6,660.1	9,789.9	6,661.2	67.4	63.6	90.00	2,999.1	1,679.8	3,225.8	3,107.1	118.63	27.191		
9,900.0	6,670.0	9,889.9	6,671.1	69.0	65.2	90.00	3,098.6	1,679.8	3,225.7	3,103.4	122.32	26.371		
10,000.0	6,680.0	9,989.9	6,681.1	70.7	66.9	90.00	3,198.1	1,679.8	3,225.7	3,099.7	126.02	25.597		
10,100.0	6,689.9	10,089.9	6,691.0	72.4	68.5	90.00	3,297.6	1,679.7	3,225.7	3,095.9	129.72	24.865		
10,200.0	6,699.8	10,189.9	6,700.9	74.1	70.2	90.00	3,397.1	1,679.7	3,225.6	3,092.2	133.44	24.173		
10,300.0	6,709.8	10,289.9	6,710.9	75.8	71.9	90.00	3,496.6	1,679.7	3,225.6	3,088.4	137.16	23.517		
10,400.0	6,719.7	10,389.9	6,720.8	77.5	73.6	90.00	3,596.1	1,679.7	3,225.6	3,084.7	140.89	22.895		
10,500.0	6,729.6	10,489.9	6,730.7	79.2	75.3	90.00	3,695.6	1,679.6	3,225.5	3,080.9	144.62	22.303		
10,600.0	6,739.6	10,589.9	6,740.7	80.9	77.0	90.00	3,795.1	1,679.6	3,225.5	3,077.1	148.36	21.741		
10,700.0	6,749.5	10,689.9	6,750.6	82.7	78.8	90.00	3,894.6	1,679.6	3,225.5	3,073.4	152.10	21.206		
10,800.0	6,759.4	10,789.9	6,760.5	84.4	80.5	90.00	3,994.1	1,679.6	3,225.4	3,069.6	155.85	20.695		
10,900.0	6,769.3	10,889.9	6,770.5	86.2	82.3	90.00	4,093.6	1,679.5	3,225.4	3,065.8	159.61	20.208		
11,000.0	6,779.3	10,989.9	6,780.4	87.9	84.1	90.00	4,193.1	1,679.5	3,225.3	3,062.0	163.36	19.743		
11,100.0	6,789.2	11,089.9	6,790.3	89.7	85.8	90.00	4,292.7	1,679.5	3,225.3	3,058.2	167.13	19.299		
11,200.0	6,799.1	11,189.9	6,800.3	91.5	87.6	90.00	4,392.2	1,679.4	3,225.3	3,054.4	170.89	18.873		
11,300.0	6,809.1	11,289.9	6,810.2	93.3	89.4	90.00	4,491.7	1,679.4	3,225.2	3,050.6	174.66	18.466		
11,400.0	6,819.0	11,389.9	6,820.1	95.0	91.2	90.00	4,591.2	1,679.4	3,225.2	3,046.8	178.43	18.075		
11,500.0	6,828.9	11,489.9	6,830.1	96.8	93.0	90.00	4,690.7	1,679.4	3,225.2	3,043.0	182.21	17.701		
11,600.0	6,838.9	11,589.9	6,840.0	98.6	94.8	90.00	4,790.2	1,679.3	3,225.1	3,039.2	185.98	17.341		
11,700.0	6,848.8	11,689.9	6,849.9	100.4	96.6	90.00	4,889.7	1,679.3	3,225.1	3,035.3	189.76	16.995		
11,800.0	6,858.7	11,789.9	6,859.9	102.3	98.4	90.00	4,989.2	1,679.3	3,225.1	3,031.5	193.55	16.663		
11,900.0	6,868.7	11,889.9	6,869.8	104.1	100.3	90.00	5,088.7	1,679.2	3,225.0	3,027.7	197.33	16.343		
12,000.0	6,878.6	11,989.9	6,879.7	105.9	102.1	90.00	5,188.2	1,679.2	3,225.0	3,023.9	201.12	16.035		
12,100.0	6,888.5	12,089.9	6,889.6	107.7	103.9	90.00	5,287.7	1,679.2	3,225.0	3,020.1	204.91	15.739		
12,200.0	6,898.5	12,189.9	6,899.6	109.5	105.8	90.00	5,387.2	1,679.2	3,224.9	3,016.2	208.70	15.453		
12,300.0	6,908.4	12,289.9	6,909.5	111.4	107.6	90.00	5,486.7	1,679.1	3,224.9	3,012.4	212.49	15.177		
12,400.0	6,918.3	12,389.9	6,919.4	113.2	109.4	90.00	5,586.2	1,679.1	3,224.9	3,008.6	216.29	14.910		
12,500.0	6,928.3	12,489.9	6,929.4	115.0	111.3	90.00	5,685.7	1,679.1	3,224.8	3,004.7	220.08	14.653		
12,600.0	6,938.2	12,589.9	6,939.3	116.9	113.1	90.00	5,785.2	1,679.0	3,224.8	3,000.9	223.88	14.404		
12,700.0	6,948.1	12,689.9	6,949.2	118.7	115.0	90.00	5,884.7	1,679.0	3,224.7	2,997.1	227.68	14.164		
12,800.0	6,958.1	12,789.9	6,959.2	120.5	116.8	90.00	5,984.2	1,679.0	3,224.7	2,993.2	231.48	13.931		
12,839.6	6,962.0	12,829.5	6,963.1	121.3	117.6	90.00	6,023.6	1,679.0	3,224.7	2,991.7	232.99	13.841		
12,840.2	6,962.1	12,830.1	6,963.2	121.4	117.6	90.00	6,024.2	1,679.0	3,224.7	2,991.7	233.01	13.840		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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	24.54	41.0	18.7	45.1					
100.0	100.0	101.0	101.0	0.1	0.1	24.54	41.0	18.7	45.1	44.9	0.19	236.030		
200.0	200.0	201.0	201.0	0.3	0.3	24.54	41.0	18.7	45.1	44.5	0.64	70.395		
300.0	300.0	301.0	301.0	0.5	0.5	24.54	41.0	18.7	45.1	44.0	1.09	41.366		
400.0	400.0	401.0	401.0	0.8	0.8	24.54	41.0	18.7	45.1	43.6	1.54	29.288		
500.0	500.0	501.0	501.0	1.0	1.0	24.54	41.0	18.7	45.1	43.1	1.99	22.670		
600.0	600.0	601.0	601.0	1.2	1.2	24.54	41.0	18.7	45.1	42.7	2.44	18.491		
700.0	700.0	701.0	701.0	1.4	1.4	24.54	41.0	18.7	45.1	42.2	2.89	15.613		
800.0	800.0	801.0	801.0	1.7	1.7	24.54	41.0	18.7	45.1	41.8	3.34	13.510		
900.0	900.0	901.0	901.0	1.9	1.9	24.54	41.0	18.7	45.1	41.3	3.79	11.907		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.54	41.0	18.7	45.1	40.9	4.24	10.643		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.54	41.0	18.7	45.1	40.4	4.69	9.622		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.54	41.0	18.7	45.1	40.0	5.14	8.780		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.54	41.0	18.7	45.1	39.5	5.59	8.073		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.54	41.0	18.7	45.1	39.1	6.03	7.472		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.54	41.0	18.7	45.1	38.6	6.48	6.954		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.54	41.0	18.7	45.1	38.2	6.93	6.503		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.54	41.0	18.7	45.1	37.7	7.38	6.107		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.54	41.0	18.7	45.1	37.3	7.83	5.757		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.54	41.0	18.7	45.1	36.8	8.28	5.444		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.54	41.0	18.7	45.1	36.4	8.73	5.164		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.54	41.0	18.7	45.1	35.9	9.18	4.911		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.54	41.0	18.7	45.1	35.5	9.63	4.682		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.54	41.0	18.7	45.1	35.0	10.08	4.473		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.54	41.0	18.7	45.1	34.6	10.53	4.282		
2,466.3	2,466.3	2,467.3	2,467.3	5.4	5.4	24.54	41.0	18.7	45.1	34.3	10.83	4.164 CC		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.54	41.0	18.7	45.1	34.1	10.98	4.107 ES		
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	26.53	41.0	20.5	45.9	34.4	11.41	4.018 SF		
2,700.0	2,700.0	2,699.4	2,699.2	5.9	5.9	32.03	41.0	25.7	48.4	36.6	11.84	4.091		
2,800.0	2,800.0	2,798.0	2,797.4	6.2	6.1	39.83	41.0	34.2	53.5	41.3	12.26	4.366		
2,900.0	2,900.0	2,895.9	2,894.6	6.4	6.3	48.30	41.0	46.0	62.0	49.3	12.70	4.882		
3,000.0	3,000.0	2,992.5	2,990.1	6.6	6.6	151.53	41.0	61.0	75.8	62.7	13.11	5.781		
3,100.0	3,099.8	3,087.1	3,083.0	6.8	6.8	158.73	41.0	78.7	96.9	83.4	13.50	7.178		
3,200.0	3,199.5	3,179.1	3,172.8	7.0	7.1	164.20	41.0	98.9	125.2	111.3	13.87	9.027		
3,300.0	3,298.7	3,268.0	3,258.8	7.2	7.4	168.16	41.0	121.1	160.3	146.1	14.22	11.275		
3,400.0	3,397.5	3,353.2	3,340.7	7.5	7.7	170.98	41.0	144.9	201.9	187.4	14.56	13.872		
3,500.0	3,495.6	3,434.6	3,418.1	7.7	8.0	173.03	41.0	169.8	249.5	234.6	14.88	16.768		
3,600.0	3,593.1	3,511.6	3,490.7	8.0	8.4	174.53	41.0	195.5	302.6	287.4	15.18	19.940		
3,611.2	3,603.9	3,520.0	3,498.6	8.0	8.4	174.68	41.0	198.4	308.9	293.7	15.21	20.310		
3,700.0	3,690.0	3,585.0	3,559.3	8.3	8.7	175.75	41.0	221.8	359.8	344.3	15.54	23.160		
3,800.0	3,786.9	3,655.8	3,624.7	8.6	9.1	176.69	41.0	248.7	419.1	403.2	15.91	26.352		
3,900.0	3,883.9	3,724.0	3,687.1	9.0	9.5	177.42	41.0	276.2	480.5	464.2	16.28	29.521		
4,000.0	3,980.8	3,795.7	3,752.1	9.4	10.0	178.05	41.0	306.5	543.5	526.8	16.66	32.623		
4,100.0	4,077.7	3,873.0	3,822.1	9.8	10.6	178.60	41.0	339.4	606.7	589.7	17.05	35.575		
4,200.0	4,174.7	3,950.3	3,892.1	10.2	11.1	179.05	41.0	372.3	670.0	652.5	17.46	38.382		
4,300.0	4,271.6	4,027.7	3,962.1	10.6	11.7	179.42	41.0	405.2	733.3	715.4	17.86	41.050		
4,400.0	4,368.5	4,105.0	4,032.1	11.0	12.3	179.73	41.0	438.0	796.6	778.3	18.28	43.586		
4,500.0	4,465.5	4,182.3	4,102.1	11.4	12.9	179.99	41.0	470.9	859.9	841.2	18.70	45.994		
4,600.0	4,562.4	4,259.7	4,172.1	11.9	13.5	-179.78	41.0	503.8	923.3	904.2	19.12	48.284		
4,700.0	4,659.3	4,337.0	4,242.1	12.3	14.1	-179.58	41.0	536.7	986.6	967.1	19.55	50.462		
4,800.0	4,756.3	4,414.3	4,312.1	12.8	14.7	-179.40	41.0	569.5	1,050.0	1,030.0	19.99	52.535		
4,900.0	4,853.2	4,491.7	4,382.1	13.3	15.4	-179.25	41.0	602.4	1,113.3	1,092.9	20.43	54.507		

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 2-6H
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 2-6H	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	4,950.1	4,569.0	4,452.1	13.7	16.0	-179.11	41.0	635.3	1,176.7	1,155.8	20.87	56.385		
5,100.0	5,047.1	4,646.4	4,522.1	14.2	16.7	-178.98	41.0	668.2	1,240.1	1,218.7	21.32	58.174		
5,200.0	5,144.0	4,723.7	4,592.1	14.7	17.3	-178.87	41.0	701.0	1,303.4	1,281.7	21.77	59.880		
5,300.0	5,240.9	4,801.0	4,662.1	15.2	18.0	-178.77	41.0	733.9	1,366.8	1,344.6	22.22	61.507		
5,400.0	5,337.9	4,878.4	4,732.1	15.6	18.7	-178.68	41.0	766.8	1,430.2	1,407.5	22.68	63.059		
5,500.0	5,434.8	4,955.7	4,802.1	16.1	19.3	-178.59	41.0	799.6	1,493.5	1,470.4	23.14	64.540		
5,602.7	5,534.4	5,035.1	4,874.0	16.6	20.0	-178.51	41.0	833.4	1,558.7	1,535.0	23.62	65.994		
5,650.0	5,579.8	5,070.7	4,906.1	16.9	20.3	-178.39	41.0	848.5	1,589.8	1,566.3	23.52	67.593		
5,700.0	5,626.8	5,106.0	4,938.1	17.2	20.6	-178.24	41.0	863.5	1,625.2	1,601.9	23.35	69.605		
5,750.0	5,672.4	5,138.7	4,967.7	17.6	20.9	-178.07	41.0	877.4	1,663.0	1,639.9	23.11	71.950		
5,800.0	5,716.6	5,168.7	4,994.9	18.0	21.2	-177.87	41.0	890.2	1,703.0	1,680.2	22.82	74.634		
5,850.0	5,759.0	5,195.8	5,019.4	18.5	21.4	-177.62	41.0	901.7	1,745.0	1,722.5	22.47	77.658		
5,900.0	5,799.4	5,220.0	5,041.3	19.0	21.6	-177.30	41.0	912.0	1,788.7	1,766.6	22.08	81.009		
5,950.0	5,837.7	5,241.1	5,060.4	19.6	21.8	-176.87	41.0	920.9	1,834.1	1,812.4	21.66	84.664		
6,000.0	5,873.7	5,258.9	5,076.5	20.3	22.0	-176.28	41.0	928.5	1,880.8	1,859.5	21.24	88.566		
6,050.0	5,907.1	5,273.4	5,089.7	21.0	22.1	-175.37	41.0	934.7	1,928.6	1,907.8	20.83	92.572		
6,100.0	5,937.9	5,284.6	5,099.8	21.8	22.2	-173.80	41.0	939.5	1,977.3	1,956.8	20.54	96.268		
6,150.0	5,965.8	5,292.4	5,106.8	22.6	22.3	-170.46	41.0	942.8	2,026.7	2,006.0	20.69	97.955		
6,174.9	5,978.7	5,294.9	5,109.1	23.1	22.3	-166.82	41.0	943.8	2,051.5	2,030.0	21.44	95.681		
6,200.0	5,991.2	5,297.1	5,111.1	23.5	22.3	-166.95	41.0	944.8	2,076.5	2,054.9	21.53	96.424		
6,300.0	6,041.2	5,305.7	5,118.8	25.4	22.4	-167.44	41.0	948.4	2,176.1	2,154.1	21.93	99.238		
6,324.9	6,053.7	5,307.8	5,120.8	25.8	22.4	-167.55	41.0	949.3	2,200.9	2,178.9	22.03	99.905		
6,350.0	6,066.3	5,310.0	5,122.8	26.3	22.4	163.56	41.0	950.3	2,225.9	2,202.1	23.80	93.526		
6,400.0	6,091.6	5,314.7	5,127.0	27.2	22.5	128.78	41.0	952.2	2,275.5	2,236.1	39.42	57.718		
6,450.0	6,117.2	5,319.7	5,131.5	28.1	22.5	113.31	41.0	954.4	2,324.6	2,279.7	44.97	51.695		
6,500.0	6,142.8	5,325.0	5,136.4	28.9	22.6	104.33	41.0	956.6	2,372.9	2,325.8	47.17	50.309		
6,550.0	6,168.2	5,330.6	5,141.4	29.8	22.6	97.98	41.0	959.0	2,420.1	2,371.9	48.11	50.300		
6,600.0	6,193.2	5,336.5	5,146.7	30.7	22.7	92.95	41.0	961.5	2,465.8	2,417.4	48.38	50.965		
6,650.0	6,217.7	5,342.5	5,152.2	31.5	22.7	88.72	41.0	964.1	2,509.8	2,461.6	48.18	52.091		
6,700.0	6,241.3	5,348.6	5,157.7	32.3	22.8	85.04	41.0	966.7	2,551.8	2,504.2	47.60	53.606		
6,750.0	6,264.1	5,354.9	5,163.4	33.0	22.8	81.80	41.0	969.3	2,591.7	2,545.0	46.70	55.494		
6,800.0	6,285.7	5,361.2	5,169.1	33.7	22.9	78.92	41.0	972.0	2,629.3	2,583.7	45.52	57.764		
6,850.0	6,306.1	5,367.5	5,174.8	34.3	22.9	76.37	41.0	974.7	2,664.3	2,620.2	44.09	60.435		
6,900.0	6,325.0	5,373.7	5,180.4	34.9	23.0	74.12	41.0	977.3	2,696.6	2,654.1	42.44	63.536		
6,950.0	6,342.3	5,379.8	5,186.0	35.4	23.0	72.15	41.0	979.9	2,726.1	2,685.4	40.63	67.092		
7,000.0	6,357.9	5,385.8	5,191.4	35.9	23.1	70.45	41.0	982.5	2,752.5	2,713.8	38.70	71.117		
7,050.0	6,371.7	5,391.6	5,196.6	36.3	23.1	69.01	41.0	984.9	2,776.0	2,739.2	36.72	75.595		
7,100.0	6,383.6	5,397.2	5,201.7	36.7	23.2	67.81	41.0	987.3	2,796.2	2,761.4	34.75	80.456		
7,150.0	6,393.4	5,402.4	5,206.4	37.0	23.2	66.85	41.0	989.6	2,813.1	2,780.3	32.88	85.545		
7,200.0	6,401.2	5,407.4	5,210.9	37.3	23.3	66.12	41.0	991.7	2,826.8	2,795.6	31.21	90.578		
7,239.3	6,405.8	5,411.1	5,214.2	37.5	23.3	65.71	41.0	993.2	2,835.1	2,805.0	30.09	94.218		
7,300.0	6,411.8	5,416.5	5,219.2	37.7	23.4	65.82	41.0	995.5	2,847.0	2,816.2	30.73	92.650		
7,400.0	6,421.7	5,425.5	5,227.3	38.2	23.4	66.01	41.0	999.4	2,869.2	2,837.4	31.82	90.157		
7,500.0	6,431.7	5,434.5	5,235.5	38.8	23.5	66.19	41.0	1,003.2	2,894.7	2,861.6	33.03	87.646		
7,600.0	6,441.6	5,443.5	5,243.6	39.4	23.6	66.37	41.0	1,007.0	2,923.3	2,889.0	34.32	85.179		
7,700.0	6,451.5	5,452.5	5,251.7	40.1	23.7	66.56	41.0	1,010.8	2,955.1	2,919.4	35.69	82.802		
7,800.0	6,461.5	5,461.5	5,259.9	40.9	23.8	66.74	41.0	1,014.6	2,989.8	2,952.7	37.12	80.541		
7,900.0	6,471.4	5,470.5	5,268.0	41.8	23.8	66.93	41.0	1,018.5	3,027.4	2,988.8	38.61	78.413		
8,000.0	6,481.3	5,479.5	5,276.2	42.7	23.9	67.11	41.0	1,022.3	3,067.7	3,027.6	40.14	76.424		
8,100.0	6,491.3	5,488.5	5,284.3	43.7	24.0	67.29	41.0	1,026.1	3,110.8	3,069.1	41.71	74.574		
8,200.0	6,501.2	5,497.5	5,292.4	44.8	24.1	67.48	41.0	1,029.9	3,156.4	3,113.1	43.32	72.860		
8,300.0	6,511.1	5,506.4	5,300.6	45.9	24.2	67.66	41.0	1,033.8	3,204.4	3,159.5	44.96	71.276		

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 2-6H
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 2-6H	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		
8,400.0	6,521.0	5,515.4	5,308.7	47.0	24.2	67.85	41.0	1,037.6	3,254.8	3,208.2	46.62	69.814		
8,500.0	6,531.0	5,524.4	5,316.9	48.3	24.3	68.03	41.0	1,041.4	3,307.4	3,259.1	48.31	68.467		
8,600.0	6,540.9	5,533.4	5,325.0	49.5	24.4	68.21	41.0	1,045.2	3,362.1	3,312.1	50.01	67.226		
8,700.0	6,550.8	5,542.4	5,333.1	50.8	24.5	68.40	41.0	1,049.1	3,418.9	3,367.2	51.74	66.084		
8,800.0	6,560.8	5,551.4	5,341.3	52.2	24.6	68.58	41.0	1,052.9	3,477.6	3,424.1	53.48	65.031		
8,900.0	6,570.7	5,560.4	5,349.4	53.6	24.6	68.76	41.0	1,056.7	3,538.1	3,482.9	55.23	64.061		
9,000.0	6,580.6	5,569.4	5,357.6	55.0	24.7	68.95	41.0	1,060.5	3,600.4	3,543.4	57.00	63.166		
9,100.0	6,590.6	5,578.4	5,365.7	56.5	24.8	69.13	41.0	1,064.3	3,664.3	3,605.5	58.78	62.340		
9,200.0	6,600.5	9,007.1	6,514.0	58.0	59.5	88.90	2,241.7	2,167.5	3,717.9	3,623.6	94.27	39.438		
9,300.0	6,610.4	9,107.0	6,523.9	59.5	60.6	88.90	2,341.0	2,172.0	3,722.4	3,624.6	97.82	38.055		
9,400.0	6,620.4	9,206.9	6,533.8	61.0	61.8	88.90	2,440.3	2,176.5	3,726.9	3,625.5	101.38	36.761		
9,500.0	6,630.3	9,306.8	6,543.8	62.6	63.1	88.91	2,539.6	2,181.0	3,731.4	3,626.4	104.97	35.549		
9,600.0	6,640.2	9,406.7	6,553.7	64.2	64.4	88.91	2,638.9	2,185.5	3,735.9	3,627.3	108.57	34.411		
9,700.0	6,650.2	9,506.6	6,563.6	65.8	65.7	88.91	2,738.2	2,190.0	3,740.4	3,628.2	112.18	33.342		
9,800.0	6,660.1	9,606.5	6,573.5	67.4	67.1	88.91	2,837.5	2,194.5	3,744.9	3,629.1	115.81	32.336		
9,900.0	6,670.0	9,706.4	6,583.4	69.0	68.4	88.91	2,936.8	2,199.0	3,749.4	3,629.9	119.45	31.389		
10,000.0	6,680.0	9,806.3	6,593.4	70.7	69.9	88.91	3,036.1	2,203.5	3,753.9	3,630.8	123.10	30.494		
10,100.0	6,689.9	9,906.2	6,603.3	72.4	71.3	88.91	3,135.4	2,208.0	3,758.4	3,631.6	126.76	29.649		
10,200.0	6,699.8	10,006.1	6,613.2	74.1	72.8	88.92	3,234.7	2,212.5	3,762.9	3,632.4	130.43	28.849		
10,300.0	6,709.8	10,106.0	6,623.1	75.8	74.3	88.92	3,334.0	2,217.0	3,767.4	3,633.2	134.11	28.091		
10,400.0	6,719.7	10,205.9	6,633.1	77.5	75.8	88.92	3,433.3	2,221.5	3,771.9	3,634.1	137.80	27.372		
10,500.0	6,729.6	10,305.8	6,643.0	79.2	77.4	88.92	3,532.6	2,226.0	3,776.3	3,634.9	141.50	26.689		
10,600.0	6,739.6	10,405.7	6,652.9	80.9	79.0	88.92	3,631.9	2,230.5	3,780.8	3,635.6	145.20	26.040		
10,700.0	6,749.5	10,505.6	6,662.8	82.7	80.6	88.92	3,731.2	2,235.0	3,785.3	3,636.4	148.90	25.421		
10,800.0	6,759.4	10,605.5	6,672.7	84.4	82.2	88.92	3,830.5	2,239.5	3,789.8	3,637.2	152.62	24.832		
10,900.0	6,769.3	10,705.4	6,682.7	86.2	83.8	88.93	3,929.8	2,243.9	3,794.3	3,638.0	156.33	24.271		
11,000.0	6,779.3	10,805.3	6,692.6	87.9	85.4	88.93	4,029.1	2,248.4	3,798.8	3,638.8	160.06	23.734		
11,100.0	6,789.2	10,905.2	6,702.5	89.7	87.1	88.93	4,128.4	2,252.9	3,803.3	3,639.5	163.78	23.222		
11,200.0	6,799.1	11,005.1	6,712.4	91.5	88.7	88.93	4,227.7	2,257.4	3,807.8	3,640.3	167.52	22.731		
11,300.0	6,809.1	11,105.0	6,722.4	93.3	90.4	88.93	4,327.0	2,261.9	3,812.3	3,641.1	171.25	22.261		
11,400.0	6,819.0	11,204.9	6,732.3	95.0	92.1	88.93	4,426.4	2,266.4	3,816.8	3,641.8	174.99	21.811		
11,500.0	6,828.9	11,304.8	6,742.2	96.8	93.8	88.93	4,525.7	2,270.9	3,821.3	3,642.6	178.73	21.380		
11,600.0	6,838.9	11,404.7	6,752.1	98.6	95.5	88.94	4,625.0	2,275.4	3,825.8	3,643.3	182.48	20.966		
11,700.0	6,848.8	11,504.6	6,762.0	100.4	97.2	88.94	4,724.3	2,279.9	3,830.3	3,644.1	186.23	20.568		
11,800.0	6,858.7	11,604.5	6,772.0	102.3	98.9	88.94	4,823.6	2,284.4	3,834.8	3,644.8	189.98	20.185		
11,900.0	6,868.7	11,704.4	6,781.9	104.1	100.7	88.94	4,922.9	2,288.9	3,839.3	3,645.5	193.74	19.817		
12,000.0	6,878.6	11,804.3	6,791.8	105.9	102.4	88.94	5,022.2	2,293.4	3,843.8	3,646.3	197.49	19.463		
12,100.0	6,888.5	11,904.2	6,801.7	107.7	104.1	88.94	5,121.5	2,297.9	3,848.3	3,647.0	201.25	19.121		
12,200.0	6,898.5	12,004.1	6,811.7	109.5	105.9	88.94	5,220.8	2,302.4	3,852.8	3,647.7	205.02	18.793		
12,300.0	6,908.4	12,104.0	6,821.6	111.4	107.7	88.94	5,320.1	2,306.9	3,857.2	3,648.5	208.78	18.475		
12,400.0	6,918.3	12,203.9	6,831.5	113.2	109.4	88.95	5,419.4	2,311.4	3,861.7	3,649.2	212.55	18.169		
12,500.0	6,928.3	12,303.8	6,841.4	115.0	111.2	88.95	5,518.7	2,315.9	3,866.2	3,649.9	216.31	17.873		
12,600.0	6,938.2	12,403.7	6,851.3	116.9	113.0	88.95	5,618.0	2,320.4	3,870.7	3,650.6	220.08	17.587		
12,700.0	6,948.1	12,503.6	6,861.3	118.7	114.7	88.95	5,717.3	2,324.9	3,875.2	3,651.4	223.86	17.311		
12,800.0	6,958.1	12,603.5	6,871.2	120.5	116.5	88.95	5,816.6	2,329.4	3,879.7	3,652.1	227.63	17.044		
12,839.6	6,962.0	12,643.0	6,875.1	121.3	117.2	88.95	5,855.9	2,331.2	3,881.5	3,652.4	229.12	16.941		
12,840.2	6,962.1	12,643.6	6,875.2	121.4	117.2	88.95	5,856.5	2,331.2	3,881.5	3,652.4	229.15	16.939		

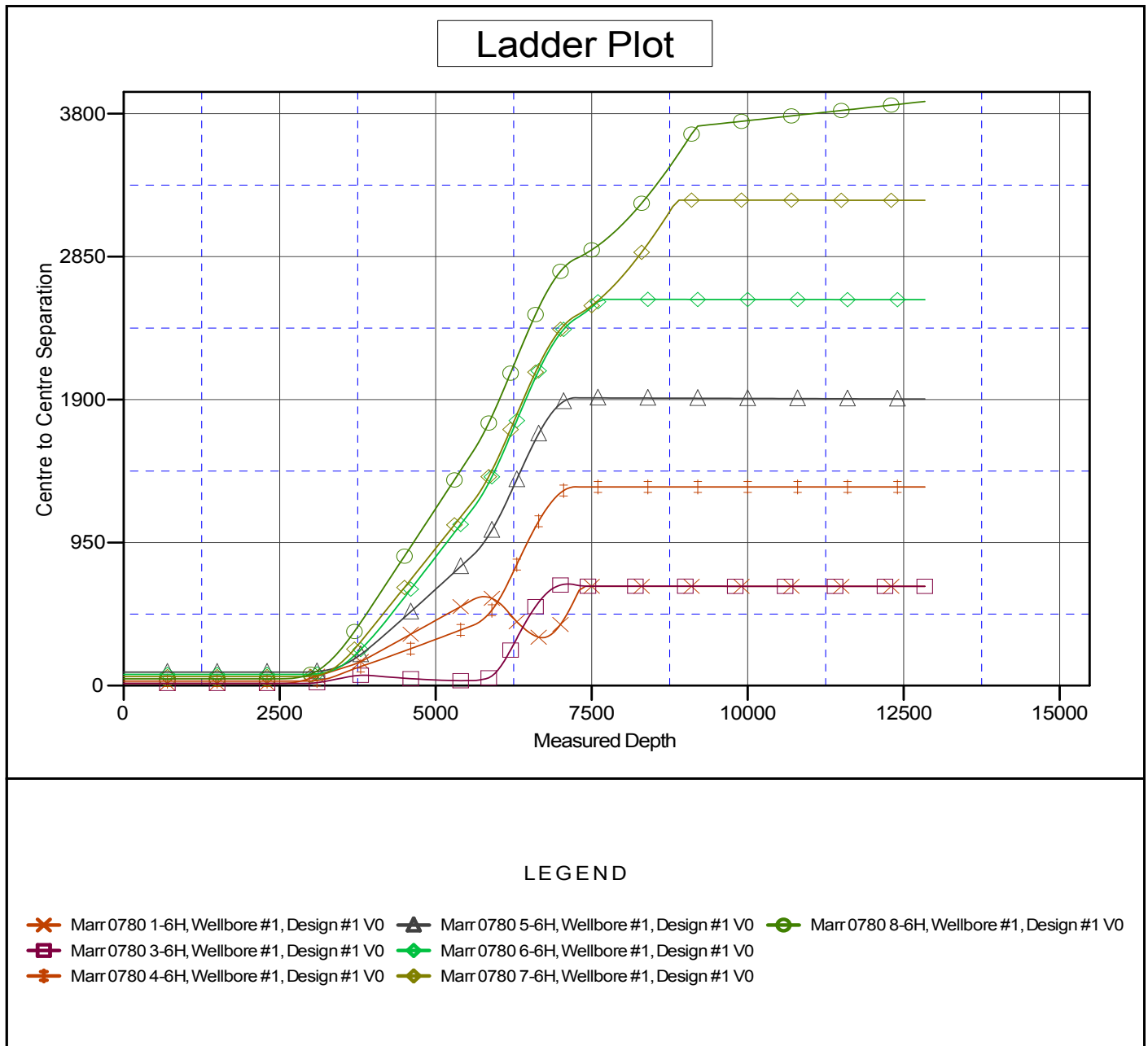
SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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 2-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.59°



SandRidge Energy

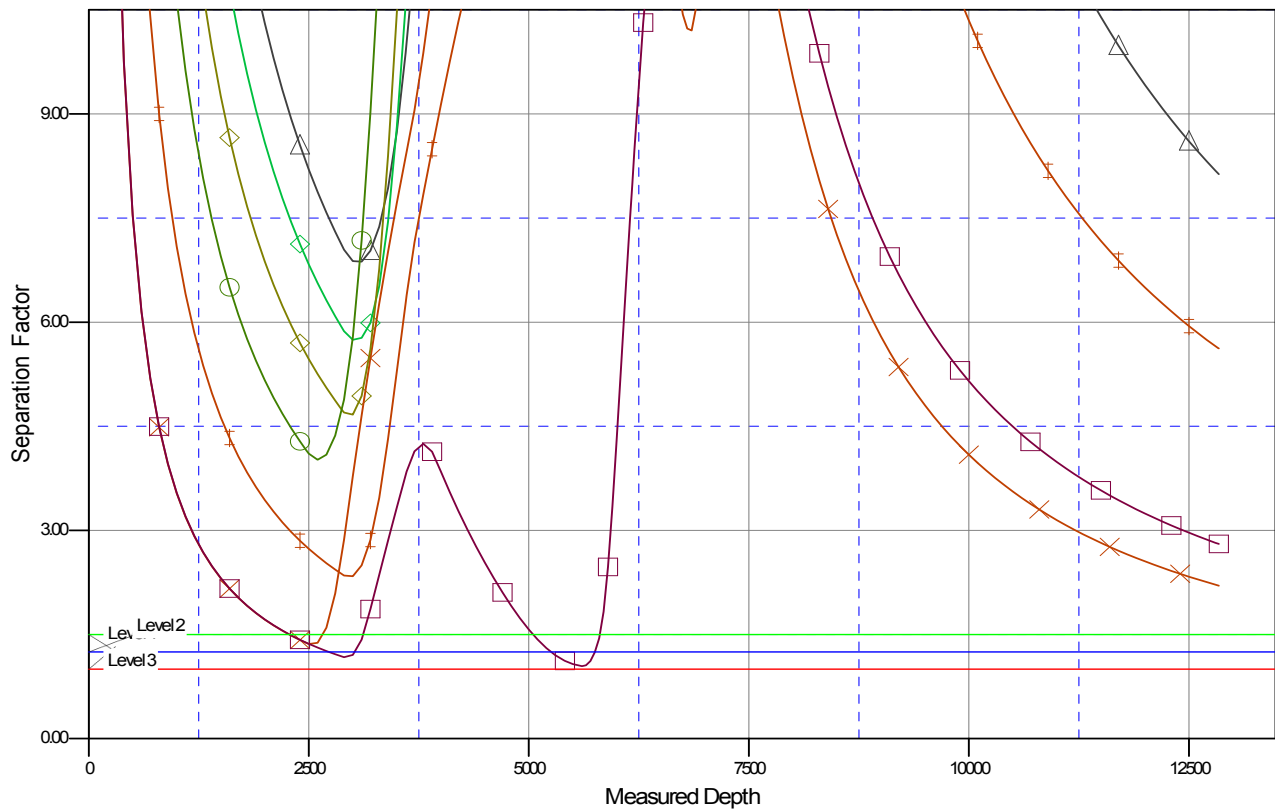
Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 2-6H
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 2-6H	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 2-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.59°

Separation Factor Plot



LEGEND

- ✕ Marr 0780 1-6H, Wellbore #1, Design #1 V0 ▲ Marr 0780 5-6H, Wellbore #1, Design #1 V0 ● Marr 0780 8-6H, Wellbore #1, Design #1 V0
- Marr 0780 3-6H, Wellbore #1, Design #1 V0 ◆ Marr 0780 6-6H, Wellbore #1, Design #1 V0
- ◆ Marr 0780 4-6H, Wellbore #1, Design #1 V0 ◆ Marr 0780 7-6H, Wellbore #1, Design #1 V0