

SandRidge Energy

North Park Basin

T7N-R80W-S7

Marr 0780 4-6H

Wellbore #1

Design #1

Anticollision Report

09 May, 2016

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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)
0.0	12,245.3	Design #1 (Wellbore #1)
		Tool Name Sperry MWD
		Description 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	45.0	34.0	4.098	CC, ES
Marr 0780 1-6H - Wellbore #1 - Design #1	2,600.0	2,599.3	45.7	34.3	4.007	SF
Marr 0780 2-6H - Wellbore #1 - Design #1	2,900.0	2,900.0	30.0	17.2	2.350	CC, ES
Marr 0780 2-6H - Wellbore #1 - Design #1	3,000.0	2,999.4	30.9	17.7	2.340	SF
Marr 0780 3-6H - Wellbore #1 - Design #1	3,134.4	3,134.4	15.0	1.2	1.086	Level 2, CC
Marr 0780 3-6H - Wellbore #1 - Design #1	3,200.0	3,199.8	15.3	1.2	1.082	Level 2, ES, SF
Marr 0780 5-6H - Wellbore #1 - Design #1	3,400.4	3,401.6	60.0	45.0	3.994	CC, ES
Marr 0780 5-6H - Wellbore #1 - Design #1	12,246.1	12,251.7	584.4	351.1	2.505	SF
Marr 0780 6-6H - Wellbore #1 - Design #1	3,133.3	3,134.4	45.0	31.2	3.255	CC
Marr 0780 6-6H - Wellbore #1 - Design #1	3,200.0	3,200.9	45.1	31.0	3.195	ES
Marr 0780 6-6H - Wellbore #1 - Design #1	3,300.0	3,300.5	46.0	31.5	3.166	SF
Marr 0780 7-6H - Wellbore #1 - Design #1	2,866.3	2,867.3	30.0	17.4	2.378	CC
Marr 0780 7-6H - Wellbore #1 - Design #1	2,900.0	2,901.0	30.0	17.2	2.350	ES
Marr 0780 7-6H - Wellbore #1 - Design #1	3,000.0	3,000.6	30.7	17.5	2.321	SF
Marr 0780 8-6H - Wellbore #1 - Design #1	2,466.3	2,467.3	15.1	4.2	1.392	Level 3, CC
Marr 0780 8-6H - Wellbore #1 - Design #1	2,500.0	2,501.0	15.1	4.1	1.373	Level 3, ES, SF

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1												
Survey Program: 0-Sperry MWD												
Reference												
Offset												
Semi Major Axis												
Distance												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	-155.52	-40.9	-18.6	45.0			
100.0	100.0	100.0	100.0	0.1	0.1	-155.52	-40.9	-18.6	45.0	44.8	0.19	238.256
200.0	200.0	200.0	200.0	0.3	0.3	-155.52	-40.9	-18.6	45.0	44.3	0.64	70.470
300.0	300.0	300.0	300.0	0.5	0.5	-155.52	-40.9	-18.6	45.0	43.9	1.09	41.350
400.0	400.0	400.0	400.0	0.8	0.8	-155.52	-40.9	-18.6	45.0	43.4	1.54	29.260
500.0	500.0	500.0	500.0	1.0	1.0	-155.52	-40.9	-18.6	45.0	43.0	1.99	22.640
600.0	600.0	600.0	600.0	1.2	1.2	-155.52	-40.9	-18.6	45.0	42.5	2.44	18.463
700.0	700.0	700.0	700.0	1.4	1.4	-155.52	-40.9	-18.6	45.0	42.1	2.89	15.587
800.0	800.0	800.0	800.0	1.7	1.7	-155.52	-40.9	-18.6	45.0	41.6	3.34	13.486
900.0	900.0	900.0	900.0	1.9	1.9	-155.52	-40.9	-18.6	45.0	41.2	3.79	11.885
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-155.52	-40.9	-18.6	45.0	40.7	4.23	10.623
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-155.52	-40.9	-18.6	45.0	40.3	4.68	9.603

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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Reference Well:	Marr 0780 4-6H	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		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-155.52	-40.9	-18.6	45.0	39.9	5.13	8.763		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-155.52	-40.9	-18.6	45.0	39.4	5.58	8.057		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-155.52	-40.9	-18.6	45.0	39.0	6.03	7.457		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	-155.52	-40.9	-18.6	45.0	38.5	6.48	6.940		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-155.52	-40.9	-18.6	45.0	38.1	6.93	6.489		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-155.52	-40.9	-18.6	45.0	37.6	7.38	6.094		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-155.52	-40.9	-18.6	45.0	37.2	7.83	5.744		
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	-155.52	-40.9	-18.6	45.0	36.7	8.28	5.433		
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-155.52	-40.9	-18.6	45.0	36.3	8.73	5.153		
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-155.52	-40.9	-18.6	45.0	35.8	9.18	4.900		
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-155.52	-40.9	-18.6	45.0	35.4	9.63	4.672		
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	-155.52	-40.9	-18.6	45.0	34.9	10.08	4.463		
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-155.52	-40.9	-18.6	45.0	34.5	10.53	4.273		
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-155.52	-40.9	-18.6	45.0	34.0	10.98	4.098 CC, ES		
2,600.0	2,600.0	2,599.3	2,599.3	5.7	5.7	-153.56	-40.9	-20.4	45.7	34.3	11.41	4.007 SF		
2,700.0	2,700.0	2,698.4	2,698.2	5.9	5.9	-148.08	-40.9	-25.5	48.3	36.4	11.84	4.075		
2,800.0	2,800.0	2,797.0	2,796.5	6.2	6.1	-140.27	-40.9	-34.0	53.3	41.1	12.29	4.340		
2,900.0	2,900.0	2,894.9	2,893.6	6.4	6.4	-131.78	-40.9	-45.8	61.8	49.0	12.77	4.838		
3,000.0	3,000.0	2,991.9	2,989.5	6.6	6.7	-123.97	-40.9	-60.8	74.0	60.7	13.28	5.575		
3,100.0	3,100.0	3,087.7	3,083.6	6.8	7.0	-117.48	-40.9	-78.7	90.2	76.4	13.83	6.524		
3,200.0	3,200.0	3,182.3	3,175.8	7.1	7.4	-112.36	-40.9	-99.5	110.3	95.8	14.43	7.643		
3,300.0	3,300.0	3,275.3	3,265.9	7.3	7.9	-108.42	-40.9	-122.9	134.0	118.9	15.08	8.886		
3,400.0	3,400.0	3,366.7	3,353.6	7.5	8.4	-105.39	-40.9	-148.8	161.1	145.3	15.78	10.211		
3,500.0	3,500.0	3,456.8	3,439.1	7.7	9.1	24.50	-40.9	-176.9	190.0	174.8	15.28	12.438		
3,600.0	3,599.8	3,545.8	3,522.7	7.9	9.8	26.65	-40.9	-207.4	219.2	203.6	15.64	14.011		
3,700.0	3,699.5	3,633.7	3,604.4	8.1	10.6	28.66	-40.9	-240.1	248.7	232.7	16.00	15.538		
3,750.4	3,749.5	3,677.6	3,644.8	8.2	11.1	29.63	-40.9	-257.3	263.7	247.5	16.18	16.292		
3,800.0	3,798.8	3,720.5	3,683.9	8.3	11.6	30.68	-40.9	-274.7	278.9	262.5	16.37	17.031		
3,900.0	3,898.0	3,805.7	3,760.9	8.5	12.5	32.49	-40.9	-311.1	311.9	295.1	16.76	18.604		
4,000.0	3,997.3	3,891.1	3,837.1	8.7	13.7	34.00	-40.9	-349.7	347.8	330.7	17.17	20.259		
4,100.0	4,096.5	3,983.6	3,919.2	8.9	14.9	35.35	-40.9	-392.4	384.9	367.3	17.60	21.863		
4,200.0	4,195.8	4,076.2	4,001.4	9.1	16.2	36.46	-40.9	-435.0	422.0	404.0	18.05	23.378		
4,300.0	4,295.0	4,168.7	4,083.5	9.4	17.5	37.39	-40.9	-477.6	459.3	440.8	18.52	24.804		
4,400.0	4,394.3	4,261.3	4,165.7	9.6	18.8	38.19	-40.9	-520.3	496.7	477.7	19.00	26.143		
4,500.0	4,493.5	4,353.8	4,247.8	9.8	20.2	38.87	-40.9	-562.9	534.1	514.6	19.49	27.399		
4,600.0	4,592.8	4,446.4	4,330.0	10.1	21.6	39.46	-40.9	-605.5	571.6	551.6	20.00	28.575		
4,700.0	4,692.0	4,538.9	4,412.1	10.3	22.9	39.98	-40.9	-648.2	609.2	588.6	20.53	29.676		
4,800.0	4,791.3	4,631.5	4,494.3	10.6	24.3	40.44	-40.9	-690.8	646.8	625.7	21.06	30.706		
4,900.0	4,890.5	4,724.0	4,576.4	10.9	25.7	40.85	-40.9	-733.4	684.4	662.8	21.61	31.669		
5,000.0	4,989.8	4,816.6	4,658.6	11.1	27.1	41.22	-40.9	-776.1	722.0	699.9	22.17	32.571		
5,100.0	5,089.0	4,909.1	4,740.7	11.4	28.5	41.55	-40.9	-818.7	759.7	736.9	22.74	33.414		
5,200.0	5,188.3	5,001.7	4,822.9	11.7	29.9	41.85	-40.9	-861.3	797.4	774.1	23.31	34.204		
5,300.0	5,287.6	5,094.2	4,905.0	11.9	31.3	42.12	-40.9	-904.0	835.1	811.2	23.90	34.943		
5,400.0	5,386.8	5,186.8	4,987.1	12.2	32.7	42.37	-40.9	-946.6	872.8	848.3	24.49	35.636		
5,500.0	5,486.1	5,279.3	5,069.3	12.5	34.1	42.59	-40.9	-989.2	910.5	885.4	25.09	36.286		
5,591.4	5,576.8	5,364.0	5,144.4	12.7	35.4	42.79	-40.9	-1,028.2	945.0	919.4	25.65	36.846		
5,600.0	5,585.3	5,371.9	5,151.4	12.8	35.6	38.55	-40.9	-1,031.8	948.3	922.5	25.75	36.829		
5,650.0	5,635.1	5,418.2	5,192.6	12.9	36.3	2.84	-40.9	-1,053.2	967.0	940.7	26.34	36.715		
5,700.0	5,684.8	5,464.5	5,233.6	13.0	37.0	-32.13	-40.9	-1,074.5	985.6	958.6	26.92	36.604		
5,750.0	5,734.3	5,510.4	5,274.4	13.1	37.7	-49.96	-40.9	-1,095.6	1,003.8	976.3	27.48	36.535		
5,800.0	5,783.3	5,555.8	5,314.6	13.2	38.4	-58.55	-40.9	-1,116.5	1,021.8	993.8	27.97	36.529		
5,850.0	5,831.6	5,600.4	5,354.2	13.3	39.1	-63.22	-40.9	-1,137.1	1,039.5	1,011.1	28.40	36.602		

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 4-6H
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 4-6H	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		
5,900.0	5,878.9	5,644.0	5,393.0	13.4	39.8	-66.06	-40.9	-1,157.2	1,056.9	1,028.2	28.76	36.753		
5,950.0	5,925.0	5,686.4	5,430.6	13.4	40.4	-67.95	-40.9	-1,176.7	1,074.2	1,045.2	29.05	36.978		
6,000.0	5,969.7	5,727.5	5,467.0	13.5	41.0	-69.29	-40.9	-1,195.6	1,091.4	1,062.1	29.29	37.265		
6,050.0	6,012.7	5,766.9	5,502.0	13.5	41.7	-70.28	-40.9	-1,213.8	1,108.6	1,079.1	29.48	37.602		
6,100.0	6,053.9	5,804.5	5,535.5	13.6	42.2	-71.01	-40.9	-1,231.1	1,125.9	1,096.2	29.65	37.974		
6,150.0	6,093.1	5,840.2	5,567.1	13.7	42.8	-71.55	-40.9	-1,247.6	1,143.4	1,113.5	29.80	38.364		
6,200.0	6,130.0	5,873.7	5,596.9	13.7	43.3	-71.90	-40.9	-1,263.0	1,161.1	1,131.1	29.96	38.759		
6,250.0	6,164.5	5,904.9	5,624.6	13.8	43.8	-72.07	-40.9	-1,277.4	1,179.2	1,149.1	30.12	39.149		
6,300.0	6,196.4	5,933.7	5,650.1	14.0	44.2	-72.07	-40.9	-1,290.6	1,197.8	1,167.5	30.30	39.527		
6,350.0	6,225.6	5,959.8	5,673.3	14.2	44.6	-71.89	-40.9	-1,302.7	1,217.0	1,186.5	30.51	39.892		
6,396.6	6,250.2	5,981.7	5,692.7	14.4	45.0	-71.53	-40.9	-1,312.8	1,235.3	1,204.6	30.71	40.224		
6,400.0	6,251.8	5,983.2	5,694.0	14.4	45.0	-71.60	-40.9	-1,313.4	1,236.7	1,205.9	30.73	40.246		
6,500.0	6,301.8	6,027.6	5,733.4	15.1	45.7	-73.55	-40.9	-1,333.9	1,279.3	1,248.0	31.32	40.852		
6,546.6	6,325.2	6,037.9	5,742.6	15.5	45.8	-74.00	-40.9	-1,338.6	1,300.9	1,269.2	31.66	41.095		
6,550.0	6,326.8	6,042.2	5,746.4	15.5	45.9	-74.01	-40.9	-1,340.6	1,302.5	1,270.8	31.68	41.117		
6,600.0	6,349.7	6,050.0	5,753.3	16.0	46.0	-71.76	-40.9	-1,344.3	1,326.3	1,294.3	31.98	41.480		
6,650.0	6,368.5	6,050.0	5,753.3	16.5	46.0	-69.17	-40.9	-1,344.3	1,350.4	1,318.2	32.15	42.005		
6,700.0	6,383.3	6,050.0	5,753.3	17.0	46.0	-66.62	-40.9	-1,344.3	1,374.5	1,342.3	32.21	42.670		
6,750.0	6,393.8	6,050.0	5,753.3	17.6	46.0	-64.14	-40.9	-1,344.3	1,398.5	1,366.3	32.22	43.402		
6,789.6	6,399.1	6,050.0	5,753.3	18.1	46.0	-62.23	-40.9	-1,344.3	1,417.3	1,385.0	32.24	43.954		
6,800.0	6,400.1	6,050.0	5,753.3	18.2	46.0	-62.23	-40.9	-1,344.3	1,422.2	1,389.9	32.36	43.952		
6,900.0	6,410.0	6,068.6	5,769.5	19.5	46.4	-63.08	-40.9	-1,353.3	1,472.3	1,438.6	33.68	43.709		
7,000.0	6,420.0	6,071.7	5,772.2	20.9	46.4	-63.22	-40.9	-1,354.9	1,527.4	1,492.5	34.96	43.685		
7,100.0	6,429.9	6,074.7	5,774.8	22.4	46.5	-63.36	-40.9	-1,356.4	1,587.0	1,550.6	36.32	43.693		
7,200.0	6,439.8	6,077.8	5,777.4	23.9	46.5	-63.49	-40.9	-1,358.0	1,650.4	1,612.7	37.74	43.733		
7,300.0	6,449.8	6,080.8	5,780.0	25.5	46.6	-63.63	-40.9	-1,359.5	1,717.3	1,678.1	39.21	43.801		
7,400.0	6,459.7	6,083.8	5,782.6	27.1	46.6	-63.77	-40.9	-1,361.1	1,787.3	1,746.6	40.72	43.894		
7,500.0	6,469.6	6,100.0	5,796.4	28.8	46.9	-64.50	-40.9	-1,369.6	1,860.1	1,817.7	42.42	43.850		
7,600.0	6,479.6	6,100.0	5,796.4	30.5	46.9	-64.50	-40.9	-1,369.6	1,935.2	1,891.2	43.97	44.012		
7,700.0	6,489.5	6,438.3	6,531.2	32.2	80.2	-91.21	1,468.4	-2,218.2	1,980.1	1,899.9	80.15	24.703		
7,800.0	6,499.4	6,538.3	6,541.1	33.9	81.3	-91.21	1,567.9	-2,218.2	1,980.1	1,895.4	84.63	23.397		
7,900.0	6,509.4	6,638.3	6,551.1	35.7	82.6	-91.21	1,667.4	-2,218.2	1,980.1	1,890.9	89.15	22.210		
8,000.0	6,519.3	6,738.3	6,561.0	37.5	84.0	-91.21	1,766.9	-2,218.2	1,980.1	1,886.3	93.72	21.128		
8,100.0	6,529.2	6,838.3	6,570.9	39.3	85.4	-91.21	1,866.4	-2,218.2	1,980.1	1,881.7	98.32	20.138		
8,200.0	6,539.2	6,938.3	6,580.8	41.1	87.0	-91.21	1,966.0	-2,218.2	1,980.1	1,877.1	102.96	19.232		
8,300.0	6,549.1	7,038.3	6,590.8	42.9	88.6	-91.21	2,065.5	-2,218.2	1,980.1	1,872.4	107.62	18.399		
8,400.0	6,559.0	7,138.3	6,600.7	44.7	90.4	-91.21	2,165.0	-2,218.2	1,980.1	1,867.7	112.31	17.631		
8,500.0	6,569.0	7,238.3	6,610.6	46.5	92.2	-91.21	2,264.5	-2,218.2	1,980.0	1,863.0	117.01	16.921		
8,600.0	6,578.9	7,338.3	6,620.6	48.4	94.1	-91.21	2,364.0	-2,218.2	1,980.0	1,858.3	121.74	16.264		
8,700.0	6,588.8	7,438.3	6,630.5	50.2	96.0	-91.21	2,463.5	-2,218.2	1,980.0	1,853.6	126.48	15.654		
8,800.0	6,598.8	7,538.3	6,640.4	52.1	98.1	-91.21	2,563.0	-2,218.2	1,980.0	1,848.8	131.24	15.087		
8,900.0	6,608.7	7,638.3	6,650.4	53.9	100.2	-91.21	2,662.5	-2,218.2	1,980.0	1,844.0	136.01	14.558		
9,000.0	6,618.6	7,738.3	6,660.3	55.8	102.3	-91.21	2,762.0	-2,218.2	1,980.0	1,839.2	140.80	14.063		
9,100.0	6,628.5	7,838.3	6,670.2	57.6	104.6	-91.21	2,861.5	-2,218.2	1,980.0	1,834.4	145.59	13.600		
9,200.0	6,638.5	7,938.3	6,680.2	59.5	106.8	-91.21	2,961.0	-2,218.2	1,980.0	1,829.6	150.39	13.166		
9,300.0	6,648.4	8,038.3	6,690.1	61.4	109.2	-91.21	3,060.5	-2,218.2	1,980.0	1,824.8	155.21	12.757		
9,400.0	6,658.3	8,138.3	6,700.0	63.2	111.5	-91.21	3,160.0	-2,218.1	1,980.0	1,820.0	160.03	12.373		
9,500.0	6,668.3	8,238.3	6,710.0	65.1	114.0	-91.21	3,259.5	-2,218.1	1,980.0	1,815.2	164.86	12.011		
9,600.0	6,678.2	8,338.3	6,719.9	67.0	116.4	-91.21	3,359.0	-2,218.1	1,980.0	1,810.3	169.69	11.669		
9,700.0	6,688.1	8,438.3	6,729.8	68.9	118.9	-91.21	3,458.5	-2,218.1	1,980.0	1,805.5	174.53	11.345		
9,800.0	6,698.1	8,538.3	6,739.8	70.8	121.4	-91.21	3,558.0	-2,218.1	1,980.0	1,800.7	179.38	11.038		
9,900.0	6,708.0	8,638.3	6,749.7	72.6	124.0	-91.21	3,657.5	-2,218.1	1,980.0	1,795.8	184.23	10.748		

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 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 1-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	6,717.9	10,738.3	6,759.6	74.5	126.6	-91.21	3,757.1	-2,218.1	1,980.0	1,790.9	189.09	10.472		
10,100.0	6,727.9	10,838.3	6,769.6	76.4	129.2	-91.21	3,856.6	-2,218.1	1,980.0	1,786.1	193.95	10.209		
10,200.0	6,737.8	10,938.3	6,779.5	78.3	131.8	-91.21	3,956.1	-2,218.1	1,980.0	1,781.2	198.81	9.959		
10,300.0	6,747.7	11,038.3	6,789.4	80.2	134.4	-91.21	4,055.6	-2,218.1	1,980.0	1,776.3	203.68	9.721		
10,400.0	6,757.7	11,138.3	6,799.4	82.1	137.1	-91.21	4,155.1	-2,218.1	1,980.0	1,771.5	208.55	9.494		
10,500.0	6,767.6	11,238.3	6,809.3	84.0	139.8	-91.21	4,254.6	-2,218.1	1,980.0	1,766.6	213.43	9.277		
10,600.0	6,777.5	11,338.3	6,819.2	85.9	142.5	-91.21	4,354.1	-2,218.1	1,980.0	1,761.7	218.31	9.070		
10,700.0	6,787.5	11,438.3	6,829.1	87.8	145.2	-91.21	4,453.6	-2,218.1	1,980.0	1,756.8	223.19	8.872		
10,800.0	6,797.4	11,538.3	6,839.1	89.7	148.0	-91.21	4,553.1	-2,218.1	1,980.0	1,751.9	228.07	8.682		
10,900.0	6,807.3	11,638.3	6,849.0	91.6	150.7	-91.21	4,652.6	-2,218.1	1,980.0	1,747.1	232.96	8.499		
11,000.0	6,817.3	11,738.3	6,858.9	93.5	153.5	-91.21	4,752.1	-2,218.1	1,980.0	1,742.2	237.85	8.325		
11,100.0	6,827.2	11,838.3	6,868.9	95.4	156.3	-91.21	4,851.6	-2,218.1	1,980.0	1,737.3	242.74	8.157		
11,200.0	6,837.1	11,938.3	6,878.8	97.3	159.0	-91.21	4,951.1	-2,218.1	1,980.0	1,732.4	247.63	7.996		
11,300.0	6,847.1	12,038.3	6,888.7	99.2	161.8	-91.21	5,050.6	-2,218.1	1,980.0	1,727.5	252.53	7.841		
11,400.0	6,857.0	12,138.3	6,898.7	101.1	164.7	-91.21	5,150.1	-2,218.1	1,980.0	1,722.6	257.42	7.692		
11,500.0	6,866.9	12,238.3	6,908.6	103.0	167.5	-91.21	5,249.6	-2,218.1	1,980.0	1,717.7	262.32	7.548		
11,600.0	6,876.8	12,338.3	6,918.5	104.9	170.3	-91.21	5,349.1	-2,218.1	1,980.0	1,712.8	267.22	7.410		
11,700.0	6,886.8	12,438.3	6,928.5	106.8	173.1	-91.21	5,448.6	-2,218.1	1,980.0	1,707.9	272.13	7.276		
11,800.0	6,896.7	12,538.3	6,938.4	108.7	176.0	-91.21	5,548.2	-2,218.0	1,980.0	1,703.0	277.03	7.147		
11,900.0	6,906.6	12,638.3	6,948.3	110.6	178.8	-91.21	5,647.7	-2,218.0	1,980.0	1,698.1	281.93	7.023		
12,000.0	6,916.6	12,738.3	6,958.3	112.5	181.7	-91.21	5,747.2	-2,218.0	1,980.0	1,693.2	286.84	6.903		
12,100.0	6,926.5	12,838.3	6,968.2	114.4	184.5	-91.21	5,846.7	-2,218.0	1,980.0	1,688.2	291.75	6.787		
12,200.0	6,936.4	12,938.3	6,978.1	116.3	187.4	-91.21	5,946.2	-2,218.0	1,980.0	1,683.3	296.66	6.674		
12,246.1	6,941.0	12,984.4	6,982.7	117.0	188.7	-91.21	5,992.0	-2,218.0	1,980.0	1,681.2	298.75	6.628		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.48	-27.3	-12.5	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-155.48	-27.3	-12.5	30.0	29.8	0.19	158.991		
200.0	200.0	200.0	200.0	0.3	0.3	-155.48	-27.3	-12.5	30.0	29.4	0.64	47.026		
300.0	300.0	300.0	300.0	0.5	0.5	-155.48	-27.3	-12.5	30.0	28.9	1.09	27.594		
400.0	400.0	400.0	400.0	0.8	0.8	-155.48	-27.3	-12.5	30.0	28.5	1.54	19.525		
500.0	500.0	500.0	500.0	1.0	1.0	-155.48	-27.3	-12.5	30.0	28.0	1.99	15.108		
600.0	600.0	600.0	600.0	1.2	1.2	-155.48	-27.3	-12.5	30.0	27.6	2.44	12.320		
700.0	700.0	700.0	700.0	1.4	1.4	-155.48	-27.3	-12.5	30.0	27.1	2.89	10.401		
800.0	800.0	800.0	800.0	1.7	1.7	-155.48	-27.3	-12.5	30.0	26.7	3.34	9.000		
900.0	900.0	900.0	900.0	1.9	1.9	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-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	-155.48	-27.3	-12.5	30.0	17.2	12.78	2.350 CC, ES		
3,000.0	3,000.0	2,999.4	2,999.4	6.6	6.6	-152.69	-27.5	-14.2	30.9	17.7	13.21	2.340 SF		
3,100.0	3,100.0	3,098.7	3,098.5	6.8	6.8	-145.31	-27.9	-19.3	34.0	20.3	13.63	2.492		
3,200.0	3,200.0	3,197.4	3,196.9	7.1	7.0	-135.83	-28.6	-27.8	40.1	26.0	14.06	2.849		
3,300.0	3,300.0	3,295.4	3,294.2	7.3	7.2	-126.84	-29.7	-39.6	49.8	35.3	14.50	3.437		
3,400.0	3,400.0	3,392.5	3,390.1	7.5	7.4	-119.59	-31.0	-54.5	63.5	48.5	14.95	4.248		
3,500.0	3,500.0	3,488.8	3,484.6	7.7	7.7	13.62	-32.5	-72.5	79.3	64.0	15.29	5.184		
3,600.0	3,599.8	3,584.3	3,577.9	7.9	7.9	18.42	-34.4	-93.5	95.5	79.9	15.65	6.104		
3,700.0	3,699.5	3,681.8	3,672.4	8.1	8.3	22.73	-36.4	-117.2	111.5	95.5	16.01	6.966		
3,750.4	3,749.5	3,731.6	3,720.6	8.2	8.4	24.74	-37.5	-129.4	118.7	102.5	16.19	7.329		
3,800.0	3,798.8	3,780.5	3,768.1	8.3	8.6	26.63	-38.5	-141.4	125.4	109.0	16.39	7.654		
3,900.0	3,898.0	3,879.3	3,863.8	8.5	8.9	29.88	-40.6	-165.6	139.4	122.6	16.79	8.303		
4,000.0	3,997.3	3,978.0	3,959.5	8.7	9.3	32.53	-42.7	-189.7	153.8	136.6	17.21	8.938		
4,100.0	4,096.5	4,076.7	4,055.2	8.9	9.7	34.73	-44.8	-213.9	168.4	150.8	17.63	9.551		
4,200.0	4,195.8	4,175.5	4,150.9	9.1	10.1	36.58	-46.9	-238.1	183.2	165.2	18.07	10.141		
4,300.0	4,295.0	4,274.2	4,246.6	9.4	10.5	38.15	-49.0	-262.3	198.2	179.7	18.52	10.705		
4,400.0	4,394.3	4,373.0	4,342.3	9.6	10.9	39.50	-51.1	-286.4	213.3	194.3	18.97	11.243		
4,500.0	4,493.5	4,471.7	4,438.0	9.8	11.3	40.67	-53.2	-310.6	228.5	209.1	19.44	11.754		
4,600.0	4,592.8	4,570.4	4,533.7	10.1	11.8	41.69	-55.3	-334.8	243.8	223.9	19.92	12.240		
4,700.0	4,692.0	4,669.2	4,629.4	10.3	12.2	42.59	-57.4	-358.9	259.2	238.8	20.41	12.701		
4,800.0	4,791.3	4,767.9	4,725.2	10.6	12.6	43.39	-59.5	-383.1	274.6	253.7	20.90	13.138		
4,900.0	4,890.5	4,866.6	4,820.9	10.9	13.1	44.11	-61.6	-407.3	290.1	268.7	21.40	13.552		
5,000.0	4,989.8	4,965.4	4,916.6	11.1	13.6	44.75	-63.7	-431.4	305.6	283.6	21.91	13.944		

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 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,089.0	5,064.1	5,012.3	11.4	14.0	45.34	-65.8	-455.6	321.1	298.7	22.43	14.315		
5,200.0	5,188.3	5,162.8	5,108.0	11.7	14.5	45.86	-67.9	-479.8	336.7	313.7	22.95	14.667		
5,300.0	5,287.6	5,261.6	5,203.7	11.9	15.0	46.35	-70.0	-503.9	352.3	328.8	23.48	15.000		
5,400.0	5,386.8	5,360.3	5,299.4	12.2	15.4	46.79	-72.1	-528.1	367.9	343.9	24.02	15.316		
5,500.0	5,486.1	5,459.0	5,395.1	12.5	15.9	47.19	-74.3	-552.3	383.5	358.9	24.56	15.616		
5,591.4	5,576.8	5,549.3	5,482.6	12.7	16.4	47.53	-76.2	-574.4	397.8	372.8	25.06	15.877		
5,600.0	5,585.3	5,557.8	5,490.8	12.8	16.4	43.14	-76.4	-576.5	399.1	374.0	25.11	15.897		
5,650.0	5,635.1	5,602.7	5,534.4	12.9	16.6	6.35	-77.3	-587.5	406.7	381.3	25.38	16.028		
5,700.0	5,684.8	5,637.2	5,567.6	13.0	16.8	-29.74	-78.1	-596.7	415.0	389.4	25.58	16.222		
5,750.0	5,734.3	5,667.9	5,596.8	13.1	17.0	-48.61	-78.9	-606.3	425.1	399.3	25.76	16.501		
5,800.0	5,783.3	5,700.0	5,626.8	13.2	17.2	-58.24	-79.9	-617.6	436.8	410.9	25.91	16.859		
5,850.0	5,831.6	5,725.9	5,650.6	13.3	17.4	-63.64	-80.8	-627.6	450.4	424.4	26.05	17.294		
5,900.0	5,878.9	5,750.0	5,672.4	13.4	17.6	-66.97	-81.7	-637.8	465.9	439.8	26.16	17.807		
5,950.0	5,925.0	5,777.8	5,697.2	13.4	17.8	-69.43	-82.8	-650.5	483.3	457.1	26.28	18.389		
6,000.0	5,969.7	5,800.0	5,716.6	13.5	18.0	-70.85	-83.7	-661.2	502.8	476.4	26.40	19.043		
6,050.0	6,012.7	5,822.9	5,736.2	13.5	18.2	-71.82	-84.7	-672.9	524.2	497.6	26.53	19.760		
6,100.0	6,053.9	5,850.0	5,759.0	13.6	18.5	-72.74	-86.0	-687.6	547.6	520.9	26.67	20.535		
6,150.0	6,093.1	5,850.0	5,759.0	13.7	18.5	-71.18	-86.0	-687.6	572.9	546.1	26.78	21.390		
6,200.0	6,130.0	5,876.9	5,781.0	13.7	18.8	-71.49	-87.4	-703.0	599.7	572.7	26.96	22.247		
6,250.0	6,164.5	5,900.0	5,799.4	13.8	19.0	-71.26	-88.6	-716.9	628.4	601.3	27.14	23.153		
6,300.0	6,196.4	5,900.0	5,799.4	14.0	19.0	-68.75	-88.6	-716.9	658.4	631.1	27.25	24.164		
6,350.0	6,225.6	5,915.0	5,811.1	14.2	19.2	-67.34	-89.4	-726.2	689.7	662.3	27.40	25.169		
6,396.6	6,250.2	5,923.7	5,817.9	14.4	19.3	-65.39	-89.9	-731.7	719.9	692.4	27.50	26.177		
6,400.0	6,251.8	5,924.3	5,818.3	14.4	19.3	-65.44	-89.9	-732.1	722.1	694.6	27.52	26.237		
6,500.0	6,301.8	5,950.0	5,837.7	15.1	19.6	-67.83	-91.3	-748.9	791.4	763.1	28.32	27.947		
6,546.6	6,325.2	5,950.0	5,837.7	15.5	19.6	-67.83	-91.3	-748.9	825.5	796.9	28.65	28.816		
6,550.0	6,326.8	5,950.0	5,837.7	15.5	19.6	-67.48	-91.3	-748.9	828.1	799.4	28.65	28.903		
6,600.0	6,349.7	5,950.0	5,837.7	16.0	19.6	-62.40	-91.3	-748.9	865.4	836.8	28.57	30.292		
6,650.0	6,368.5	5,950.0	5,837.7	16.5	19.6	-57.57	-91.3	-748.9	902.6	874.3	28.32	31.871		
6,700.0	6,383.3	5,965.4	5,849.0	17.0	19.8	-54.43	-92.3	-759.3	939.3	911.1	28.21	33.292		
6,750.0	6,393.8	5,967.7	5,850.7	17.6	19.9	-50.44	-92.4	-760.8	975.6	947.7	27.87	35.011		
6,789.6	6,399.1	5,968.4	5,851.2	18.1	19.9	-47.45	-92.4	-761.3	1,003.9	976.3	27.58	36.401		
6,800.0	6,400.1	5,968.4	5,851.2	18.2	19.9	-47.46	-92.4	-761.4	1,011.2	983.6	27.67	36.541		
6,900.0	6,410.0	5,969.0	5,851.7	19.5	19.9	-47.51	-92.5	-761.8	1,084.8	1,056.1	28.65	37.864		
7,000.0	6,420.0	5,969.6	5,852.1	20.9	19.9	-47.56	-92.5	-762.2	1,162.3	1,132.5	29.70	39.131		
7,100.0	6,429.9	5,970.2	5,852.5	22.4	19.9	-47.60	-92.5	-762.6	1,243.0	1,212.1	30.82	40.331		
7,200.0	6,439.8	7,792.2	6,460.7	23.9	40.9	-90.91	973.0	-1,558.5	1,320.1	1,270.7	49.42	26.712		
7,300.0	6,449.8	7,892.2	6,470.6	25.5	41.7	-90.91	1,072.5	-1,558.5	1,320.1	1,267.6	52.52	25.137		
7,400.0	6,459.7	7,992.2	6,480.5	27.1	42.6	-90.91	1,172.0	-1,558.5	1,320.1	1,264.4	55.70	23.699		
7,500.0	6,469.6	8,092.2	6,490.5	28.8	43.6	-90.91	1,271.5	-1,558.5	1,320.1	1,261.1	58.97	22.386		
7,600.0	6,479.6	8,192.2	6,500.4	30.5	44.7	-90.91	1,371.0	-1,558.5	1,320.1	1,257.8	62.30	21.189		
7,700.0	6,489.5	8,292.2	6,510.3	32.2	45.8	-90.91	1,470.5	-1,558.5	1,320.1	1,254.4	65.69	20.097		
7,800.0	6,499.4	8,392.2	6,520.3	33.9	46.9	-90.91	1,570.0	-1,558.5	1,320.1	1,251.0	69.12	19.098		
7,900.0	6,509.4	8,492.2	6,530.2	35.7	48.2	-90.91	1,669.5	-1,558.5	1,320.1	1,247.5	72.59	18.184		
8,000.0	6,519.3	8,592.2	6,540.1	37.5	49.4	-90.91	1,769.0	-1,558.5	1,320.1	1,244.0	76.10	17.345		
8,100.0	6,529.2	8,692.2	6,550.1	39.3	50.7	-90.91	1,868.5	-1,558.5	1,320.1	1,240.4	79.64	16.574		
8,200.0	6,539.2	8,792.2	6,560.0	41.1	52.1	-90.91	1,968.0	-1,558.5	1,320.1	1,236.8	83.21	15.864		
8,300.0	6,549.1	8,892.2	6,569.9	42.9	53.5	-90.91	2,067.6	-1,558.5	1,320.0	1,233.2	86.80	15.207		
8,400.0	6,559.0	8,992.2	6,579.9	44.7	54.9	-90.91	2,167.1	-1,558.5	1,320.0	1,229.6	90.41	14.600		
8,500.0	6,569.0	9,092.2	6,589.8	46.5	56.3	-90.91	2,266.6	-1,558.5	1,320.0	1,226.0	94.04	14.037		
8,600.0	6,578.9	9,192.2	6,599.7	48.4	57.8	-90.91	2,366.1	-1,558.4	1,320.0	1,222.3	97.69	13.513		
8,700.0	6,588.8	9,292.2	6,609.7	50.2	59.3	-90.91	2,465.6	-1,558.4	1,320.0	1,218.7	101.35	13.025		

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 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 2-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.0	6,598.8	9,392.2	6,619.6	52.1	60.9	-90.91	2,565.1	-1,558.4	1,320.0	1,215.0	105.02	12.569		
8,900.0	6,608.7	9,492.2	6,629.5	53.9	62.5	-90.91	2,664.6	-1,558.4	1,320.0	1,211.3	108.71	12.143		
9,000.0	6,618.6	9,592.2	6,639.5	55.8	64.0	-90.91	2,764.1	-1,558.4	1,320.0	1,207.6	112.40	11.744		
9,100.0	6,628.5	9,692.2	6,649.4	57.6	65.6	-90.91	2,863.6	-1,558.4	1,320.0	1,203.9	116.11	11.369		
9,200.0	6,638.5	9,792.2	6,659.3	59.5	67.3	-90.91	2,963.1	-1,558.4	1,320.0	1,200.2	119.82	11.016		
9,300.0	6,648.4	9,892.2	6,669.3	61.4	68.9	-90.91	3,062.6	-1,558.4	1,320.0	1,196.5	123.54	10.685		
9,400.0	6,658.3	9,992.2	6,679.2	63.2	70.6	-90.91	3,162.1	-1,558.4	1,320.0	1,192.7	127.27	10.372		
9,500.0	6,668.3	10,092.2	6,689.1	65.1	72.2	-90.91	3,261.6	-1,558.4	1,320.0	1,189.0	131.01	10.076		
9,600.0	6,678.2	10,192.2	6,699.0	67.0	73.9	-90.91	3,361.1	-1,558.4	1,320.0	1,185.2	134.75	9.796		
9,700.0	6,688.1	10,292.2	6,709.0	68.9	75.6	-90.91	3,460.6	-1,558.4	1,320.0	1,181.5	138.49	9.531		
9,800.0	6,698.1	10,392.2	6,718.9	70.8	77.3	-90.91	3,560.1	-1,558.4	1,320.0	1,177.7	142.25	9.280		
9,900.0	6,708.0	10,492.2	6,728.8	72.6	79.1	-90.91	3,659.6	-1,558.4	1,320.0	1,174.0	146.00	9.041		
10,000.0	6,717.9	10,592.2	6,738.8	74.5	80.8	-90.91	3,759.1	-1,558.3	1,320.0	1,170.2	149.76	8.814		
10,100.0	6,727.9	10,692.2	6,748.7	76.4	82.5	-90.91	3,858.7	-1,558.3	1,320.0	1,166.4	153.53	8.598		
10,200.0	6,737.8	10,792.2	6,758.6	78.3	84.3	-90.91	3,958.2	-1,558.3	1,320.0	1,162.7	157.30	8.392		
10,300.0	6,747.7	10,892.2	6,768.6	80.2	86.0	-90.91	4,057.7	-1,558.3	1,320.0	1,158.9	161.07	8.195		
10,400.0	6,757.7	10,992.2	6,778.5	82.1	87.8	-90.91	4,157.2	-1,558.3	1,320.0	1,155.1	164.84	8.007		
10,500.0	6,767.6	11,092.2	6,788.4	84.0	89.6	-90.91	4,256.7	-1,558.3	1,319.9	1,151.3	168.62	7.828		
10,600.0	6,777.5	11,192.2	6,798.4	85.9	91.3	-90.91	4,356.2	-1,558.3	1,319.9	1,147.5	172.40	7.656		
10,700.0	6,787.5	11,292.2	6,808.3	87.8	93.1	-90.91	4,455.7	-1,558.3	1,319.9	1,143.8	176.19	7.492		
10,800.0	6,797.4	11,392.2	6,818.2	89.7	94.9	-90.91	4,555.2	-1,558.3	1,319.9	1,140.0	179.97	7.334		
10,900.0	6,807.3	11,492.2	6,828.2	91.6	96.7	-90.91	4,654.7	-1,558.3	1,319.9	1,136.2	183.76	7.183		
11,000.0	6,817.3	11,592.2	6,838.1	93.5	98.5	-90.91	4,754.2	-1,558.3	1,319.9	1,132.4	187.55	7.038		
11,100.0	6,827.2	11,692.2	6,848.0	95.4	100.3	-90.91	4,853.7	-1,558.3	1,319.9	1,128.6	191.35	6.898		
11,200.0	6,837.1	11,792.2	6,858.0	97.3	102.1	-90.91	4,953.2	-1,558.3	1,319.9	1,124.8	195.14	6.764		
11,300.0	6,847.1	11,892.2	6,867.9	99.2	103.9	-90.91	5,052.7	-1,558.2	1,319.9	1,121.0	198.94	6.635		
11,400.0	6,857.0	11,992.2	6,877.8	101.1	105.7	-90.91	5,152.2	-1,558.2	1,319.9	1,117.2	202.74	6.510		
11,500.0	6,866.9	12,092.2	6,887.8	103.0	107.6	-90.91	5,251.7	-1,558.2	1,319.9	1,113.4	206.54	6.391		
11,600.0	6,876.8	12,192.2	6,897.7	104.9	109.4	-90.91	5,351.2	-1,558.2	1,319.9	1,109.6	210.34	6.275		
11,700.0	6,886.8	12,292.2	6,907.6	106.8	111.2	-90.91	5,450.7	-1,558.2	1,319.9	1,105.8	214.14	6.164		
11,800.0	6,896.7	12,392.2	6,917.6	108.7	113.0	-90.91	5,550.2	-1,558.2	1,319.9	1,101.9	217.94	6.056		
11,900.0	6,906.6	12,492.2	6,927.5	110.6	114.9	-90.91	5,649.8	-1,558.2	1,319.9	1,098.1	221.75	5.952		
12,000.0	6,916.6	12,592.2	6,937.4	112.5	116.7	-90.91	5,749.3	-1,558.2	1,319.9	1,094.3	225.56	5.852		
12,100.0	6,926.5	12,692.2	6,947.3	114.4	118.6	-90.91	5,848.8	-1,558.2	1,319.9	1,090.5	229.36	5.754		
12,200.0	6,936.4	12,792.2	6,957.3	116.3	120.4	-90.91	5,948.3	-1,558.2	1,319.9	1,086.7	233.17	5.660		
12,246.1	6,941.0	12,838.3	6,961.9	117.0	121.3	-90.91	5,994.1	-1,558.2	1,319.9	1,085.1	234.76	5.622		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 3-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-155.79	-13.7	-6.2	15.0					
100.0	100.0	100.0	100.0	0.1	0.1	-155.79	-13.7	-6.2	15.0	14.8	0.19	79.560		
200.0	200.0	200.0	200.0	0.3	0.3	-155.79	-13.7	-6.2	15.0	14.4	0.64	23.532		
300.0	300.0	300.0	300.0	0.5	0.5	-155.79	-13.7	-6.2	15.0	13.9	1.09	13.808		
400.0	400.0	400.0	400.0	0.8	0.8	-155.79	-13.7	-6.2	15.0	13.5	1.54	9.771		
500.0	500.0	500.0	500.0	1.0	1.0	-155.79	-13.7	-6.2	15.0	13.0	1.99	7.560		
600.0	600.0	600.0	600.0	1.2	1.2	-155.79	-13.7	-6.2	15.0	12.6	2.44	6.165		
700.0	700.0	700.0	700.0	1.4	1.4	-155.79	-13.7	-6.2	15.0	12.1	2.89	5.205		
800.0	800.0	800.0	800.0	1.7	1.7	-155.79	-13.7	-6.2	15.0	11.7	3.34	4.503		
900.0	900.0	900.0	900.0	1.9	1.9	-155.79	-13.7	-6.2	15.0	11.2	3.79	3.969		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-155.79	-13.7	-6.2	15.0	10.8	4.23	3.547		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	-155.79	-13.7	-6.2	15.0	10.3	4.68	3.207		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	-155.79	-13.7	-6.2	15.0	9.9	5.13	2.926		
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	-155.79	-13.7	-6.2	15.0	9.4	5.58	2.690		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	3.0	-155.79	-13.7	-6.2	15.0	9.0	6.03	2.490		
1,500.0	1,500.0	1,500.0	1,500.0	3.2	3.2	-155.79	-13.7	-6.2	15.0	8.5	6.48	2.317		
1,600.0	1,600.0	1,600.0	1,600.0	3.5	3.5	-155.79	-13.7	-6.2	15.0	8.1	6.93	2.167		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-155.79	-13.7	-6.2	15.0	7.6	7.38	2.035		
1,800.0	1,800.0	1,800.0	1,800.0	3.9	3.9	-155.79	-13.7	-6.2	15.0	7.2	7.83	1.918	Level 4	
1,900.0	1,900.0	1,900.0	1,900.0	4.1	4.1	-155.79	-13.7	-6.2	15.0	6.7	8.28	1.814	Level 4	
2,000.0	2,000.0	2,000.0	2,000.0	4.4	4.4	-155.79	-13.7	-6.2	15.0	6.3	8.73	1.721	Level 4	
2,100.0	2,100.0	2,100.0	2,100.0	4.6	4.6	-155.79	-13.7	-6.2	15.0	5.8	9.18	1.636	Level 4	
2,200.0	2,200.0	2,200.0	2,200.0	4.8	4.8	-155.79	-13.7	-6.2	15.0	5.4	9.63	1.560	Level 4	
2,300.0	2,300.0	2,300.0	2,300.0	5.0	5.0	-155.79	-13.7	-6.2	15.0	4.9	10.08	1.490	Level 3	
2,400.0	2,400.0	2,400.0	2,400.0	5.3	5.3	-155.79	-13.7	-6.2	15.0	4.5	10.53	1.427	Level 3	
2,500.0	2,500.0	2,500.0	2,500.0	5.5	5.5	-155.79	-13.7	-6.2	15.0	4.0	10.98	1.368	Level 3	
2,600.0	2,600.0	2,600.0	2,600.0	5.7	5.7	-155.79	-13.7	-6.2	15.0	3.6	11.43	1.315	Level 3	
2,700.0	2,700.0	2,700.0	2,700.0	5.9	5.9	-155.79	-13.7	-6.2	15.0	3.1	11.88	1.265	Level 3	
2,800.0	2,800.0	2,800.0	2,800.0	6.2	6.2	-155.79	-13.7	-6.2	15.0	2.7	12.33	1.219	Level 2	
2,900.0	2,900.0	2,900.0	2,900.0	6.4	6.4	-155.79	-13.7	-6.2	15.0	2.2	12.78	1.176	Level 2	
3,000.0	3,000.0	3,000.0	3,000.0	6.6	6.6	-155.79	-13.7	-6.2	15.0	1.8	13.23	1.136	Level 2	
3,100.0	3,100.0	3,100.0	3,100.0	6.8	6.8	-155.79	-13.7	-6.2	15.0	1.3	13.67	1.098	Level 2	
3,134.4	3,134.4	3,134.4	3,134.4	6.9	6.9	-155.79	-13.7	-6.2	15.0	1.2	13.83	1.086	Level 2, CC	
3,200.0	3,200.0	3,199.8	3,199.8	7.1	7.1	-154.43	-13.8	-6.6	15.3	1.2	14.12	1.082	Level 2, ES, SF	
3,300.0	3,300.0	3,299.4	3,299.4	7.3	7.2	-145.10	-14.3	-10.0	17.5	3.0	14.53	1.204	Level 2	
3,400.0	3,400.0	3,398.6	3,398.3	7.5	7.4	-132.65	-15.5	-16.8	22.9	7.9	14.96	1.531	Level 4	
3,500.0	3,500.0	3,497.4	3,496.6	7.7	7.7	5.32	-17.2	-26.9	30.4	15.0	15.34	1.980	Level 4	
3,600.0	3,599.8	3,595.9	3,594.1	7.9	7.9	13.94	-19.4	-40.3	38.4	22.7	15.70	2.444		
3,700.0	3,699.5	3,693.9	3,690.6	8.1	8.1	21.45	-22.2	-56.9	47.1	31.0	16.05	2.934		
3,750.4	3,749.5	3,743.1	3,738.9	8.2	8.2	24.92	-23.8	-66.5	51.8	35.6	16.22	3.192		
3,800.0	3,798.8	3,791.4	3,786.1	8.3	8.4	27.98	-25.5	-76.7	57.0	40.6	16.42	3.475		
3,900.0	3,898.0	3,888.2	3,880.1	8.5	8.6	32.51	-29.3	-99.5	70.5	53.7	16.81	4.196		
4,000.0	3,997.3	3,984.8	3,973.1	8.7	9.0	35.30	-33.5	-125.2	87.5	70.3	17.22	5.083		
4,100.0	4,096.5	4,083.1	4,067.5	8.9	9.3	37.13	-38.0	-152.2	105.6	87.9	17.64	5.985		
4,200.0	4,195.8	4,181.4	4,161.9	9.1	9.7	38.43	-42.6	-179.3	123.7	105.6	18.07	6.844		
4,300.0	4,295.0	4,279.7	4,256.3	9.4	10.1	39.40	-47.1	-206.4	141.8	123.3	18.51	7.662		
4,400.0	4,394.3	4,378.1	4,350.7	9.6	10.5	40.15	-51.6	-233.4	160.0	141.0	18.96	8.438		
4,500.0	4,493.5	4,476.4	4,445.1	9.8	10.9	40.74	-56.1	-260.5	178.2	158.8	19.42	9.175		
4,600.0	4,592.8	4,574.7	4,539.5	10.1	11.4	41.23	-60.6	-287.5	196.4	176.5	19.89	9.874		
4,700.0	4,692.0	4,673.0	4,633.9	10.3	11.8	41.63	-65.1	-314.6	214.6	194.3	20.37	10.537		
4,800.0	4,791.3	4,771.3	4,728.4	10.6	12.3	41.97	-69.6	-341.6	232.9	212.0	20.86	11.166		
4,900.0	4,890.5	4,869.6	4,822.8	10.9	12.8	42.26	-74.1	-368.7	251.1	229.8	21.35	11.762		

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 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 3-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,989.8	4,967.9	4,917.2	11.1	13.3	42.51	-78.6	-395.8	269.4	247.5	21.85	12.328		
5,100.0	5,089.0	5,066.3	5,011.6	11.4	13.8	42.73	-83.1	-422.8	287.6	265.3	22.36	12.865		
5,200.0	5,188.3	5,164.6	5,106.0	11.7	14.3	42.92	-87.7	-449.9	305.9	283.0	22.87	13.374		
5,300.0	5,287.6	5,262.9	5,200.4	11.9	14.8	43.10	-92.2	-476.9	324.2	300.8	23.39	13.858		
5,400.0	5,386.8	5,361.2	5,294.8	12.2	15.3	43.25	-96.7	-504.0	342.4	318.5	23.91	14.318		
5,500.0	5,486.1	5,459.5	5,389.2	12.5	15.8	43.39	-101.2	-531.0	360.7	336.2	24.44	14.756		
5,591.4	5,576.8	5,549.4	5,475.5	12.7	16.3	43.50	-105.3	-555.8	377.4	352.5	24.93	15.137		
5,600.0	5,585.3	5,557.8	5,483.6	12.8	16.4	39.10	-105.7	-558.1	378.9	354.0	24.98	15.168		
5,650.0	5,635.1	5,607.0	5,530.8	12.9	16.6	2.27	-107.9	-571.6	388.0	362.7	25.26	15.357		
5,700.0	5,684.8	5,655.9	5,577.8	13.0	16.9	-34.10	-110.2	-585.1	396.8	371.3	25.50	15.561		
5,750.0	5,734.3	5,704.3	5,624.3	13.1	17.1	-53.55	-112.4	-598.4	405.5	379.8	25.69	15.786		
5,800.0	5,783.3	5,750.0	5,668.2	13.2	17.4	-63.83	-114.3	-611.0	414.4	388.6	25.84	16.035		
5,850.0	5,831.6	5,793.7	5,710.1	13.3	17.6	-69.97	-113.9	-623.4	423.9	397.9	25.98	16.317		
5,900.0	5,878.9	5,837.6	5,752.0	13.4	17.8	-74.07	-110.9	-636.0	434.1	408.0	26.10	16.629		
5,950.0	5,925.0	5,881.9	5,793.9	13.4	18.0	-77.04	-105.1	-649.1	445.0	418.7	26.23	16.966		
6,000.0	5,969.7	5,926.7	5,835.8	13.5	18.3	-79.31	-96.5	-662.5	456.5	430.1	26.35	17.320		
6,050.0	6,012.7	5,972.1	5,877.6	13.5	18.5	-81.11	-85.1	-676.2	468.5	442.0	26.49	17.686		
6,100.0	6,053.9	6,018.2	5,919.0	13.6	18.7	-82.57	-70.7	-690.2	481.1	454.4	26.65	18.055		
6,150.0	6,093.1	6,065.0	5,960.0	13.7	18.9	-83.78	-53.3	-704.5	494.1	467.3	26.83	18.417		
6,200.0	6,130.0	6,112.5	6,000.3	13.7	19.2	-84.79	-32.7	-719.0	507.6	480.5	27.05	18.764		
6,250.0	6,164.5	6,161.0	6,039.8	13.8	19.4	-85.64	-8.9	-733.8	521.3	494.0	27.31	19.086		
6,300.0	6,196.4	6,210.4	6,078.4	14.0	19.7	-86.35	18.2	-748.6	535.3	507.7	27.64	19.367		
6,350.0	6,225.6	6,260.8	6,115.6	14.2	19.9	-86.96	48.8	-763.5	549.4	521.4	28.03	19.604		
6,396.6	6,250.2	6,308.9	6,149.0	14.4	20.2	-87.43	80.4	-777.5	562.7	534.3	28.46	19.775		
6,400.0	6,251.8	6,312.4	6,151.4	14.4	20.2	-87.52	82.8	-778.5	563.7	535.2	28.49	19.785		
6,500.0	6,301.8	6,420.9	6,218.0	15.1	20.9	-89.43	162.8	-808.5	591.4	561.7	29.71	19.904		
6,546.6	6,325.2	6,473.2	6,245.6	15.5	21.3	-89.72	205.0	-822.2	603.6	573.1	30.41	19.844		
6,550.0	6,326.8	6,476.4	6,247.3	15.5	21.3	-89.64	207.7	-823.0	604.4	574.0	30.47	19.840		
6,600.0	6,349.7	6,524.6	6,271.4	16.0	21.6	-88.65	247.6	-835.3	617.2	585.9	31.26	19.742		
6,650.0	6,368.5	6,572.4	6,295.2	16.5	22.0	-88.05	287.1	-847.5	629.9	597.7	32.13	19.603		
6,700.0	6,383.3	6,619.3	6,318.7	17.0	22.4	-87.80	325.9	-859.5	642.6	609.5	33.07	19.433		
6,750.0	6,393.8	6,728.4	6,366.1	17.6	23.4	-89.16	421.2	-882.7	653.4	618.6	34.74	18.808		
6,789.6	6,399.1	6,825.8	6,395.0	18.1	24.3	-90.11	513.3	-894.8	658.3	622.0	36.32	18.126		
6,800.0	6,400.1	6,852.2	6,400.5	18.2	24.5	-90.36	539.1	-896.6	659.0	622.3	36.76	17.928		
6,900.0	6,410.0	6,989.9	6,417.0	19.5	25.8	-90.61	675.8	-898.3	659.7	619.9	39.82	16.566		
7,000.0	6,420.0	7,089.9	6,427.0	20.9	26.8	-90.61	775.3	-898.3	659.7	617.1	42.58	15.494		
7,100.0	6,429.9	7,189.9	6,436.9	22.4	28.0	-90.61	874.8	-898.3	659.7	614.2	45.49	14.504		
7,200.0	6,439.8	7,289.9	6,446.8	23.9	29.2	-90.61	974.3	-898.3	659.7	611.2	48.53	13.595		
7,300.0	6,449.8	7,389.9	6,456.7	25.5	30.5	-90.61	1,073.8	-898.3	659.7	608.1	51.67	12.768		
7,400.0	6,459.7	7,489.9	6,466.7	27.1	31.9	-90.61	1,173.3	-898.3	659.7	604.8	54.91	12.016		
7,500.0	6,469.6	7,589.9	6,476.6	28.8	33.3	-90.61	1,272.8	-898.3	659.7	601.5	58.22	11.333		
7,600.0	6,479.6	7,689.9	6,486.5	30.5	34.8	-90.61	1,372.3	-898.3	659.7	598.2	61.59	10.713		
7,700.0	6,489.5	7,789.9	6,496.5	32.2	36.3	-90.61	1,471.8	-898.3	659.7	594.7	65.01	10.149		
7,800.0	6,499.4	7,889.9	6,506.4	33.9	37.9	-90.61	1,571.3	-898.3	659.7	591.3	68.48	9.635		
7,900.0	6,509.4	7,989.9	6,516.3	35.7	39.5	-90.61	1,670.8	-898.3	659.7	587.8	71.98	9.166		
8,000.0	6,519.3	8,089.9	6,526.3	37.5	41.1	-90.61	1,770.3	-898.3	659.7	584.2	75.52	8.736		
8,100.0	6,529.2	8,189.9	6,536.2	39.3	42.8	-90.61	1,869.8	-898.3	659.8	580.7	79.09	8.342		
8,200.0	6,539.2	8,289.9	6,546.1	41.1	44.4	-90.61	1,969.3	-898.3	659.8	577.1	82.68	7.980		
8,300.0	6,549.1	8,389.9	6,556.1	42.9	46.1	-90.61	2,068.8	-898.3	659.8	573.5	86.29	7.646		
8,400.0	6,559.0	8,489.9	6,566.0	44.7	47.8	-90.61	2,168.3	-898.3	659.8	569.8	89.92	7.337		
8,500.0	6,569.0	8,589.9	6,575.9	46.5	49.5	-90.61	2,267.8	-898.3	659.8	566.2	93.57	7.051		
8,600.0	6,578.9	8,689.9	6,585.9	48.4	51.3	-90.61	2,367.4	-898.3	659.8	562.5	97.23	6.785		

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 4-6H
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 4-6H	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		
8,700.0	6,588.8	8,789.9	6,595.8	50.2	53.0	-90.61	2,466.9	-898.3	659.8	558.9	100.91	6.538		
8,800.0	6,598.8	8,889.9	6,605.7	52.1	54.8	-90.61	2,566.4	-898.3	659.8	555.2	104.60	6.308		
8,900.0	6,608.7	8,989.9	6,615.7	53.9	56.6	-90.61	2,665.9	-898.3	659.8	551.5	108.30	6.092		
9,000.0	6,618.6	9,089.9	6,625.6	55.8	58.4	-90.61	2,765.4	-898.3	659.8	547.8	112.01	5.890		
9,100.0	6,628.5	9,189.9	6,635.5	57.6	60.1	-90.61	2,864.9	-898.3	659.8	544.1	115.73	5.701		
9,200.0	6,638.5	9,289.9	6,645.5	59.5	61.9	-90.61	2,964.4	-898.3	659.8	540.3	119.45	5.523		
9,300.0	6,648.4	9,389.9	6,655.4	61.4	63.8	-90.61	3,063.9	-898.3	659.8	536.6	123.19	5.356		
9,400.0	6,658.3	9,489.9	6,665.3	63.2	65.6	-90.61	3,163.4	-898.3	659.8	532.9	126.93	5.198		
9,500.0	6,668.3	9,589.9	6,675.3	65.1	67.4	-90.61	3,262.9	-898.3	659.8	529.1	130.67	5.049		
9,600.0	6,678.2	9,689.9	6,685.2	67.0	69.2	-90.61	3,362.4	-898.3	659.8	525.4	134.42	4.908		
9,700.0	6,688.1	9,789.9	6,695.1	68.9	71.0	-90.61	3,461.9	-898.3	659.8	521.6	138.18	4.775		
9,800.0	6,698.1	9,889.9	6,705.0	70.8	72.9	-90.61	3,561.4	-898.3	659.8	517.9	141.94	4.649		
9,900.0	6,708.0	9,989.9	6,715.0	72.6	74.7	-90.61	3,660.9	-898.3	659.8	514.1	145.70	4.528		
10,000.0	6,717.9	10,089.9	6,724.9	74.5	76.6	-90.61	3,760.4	-898.3	659.8	510.3	149.47	4.414		
10,100.0	6,727.9	10,189.9	6,734.8	76.4	78.4	-90.61	3,859.9	-898.3	659.8	506.6	153.24	4.306		
10,200.0	6,737.8	10,289.9	6,744.8	78.3	80.3	-90.61	3,959.4	-898.3	659.8	502.8	157.02	4.202		
10,300.0	6,747.7	10,389.9	6,754.7	80.2	82.1	-90.61	4,058.9	-898.3	659.8	499.0	160.80	4.103		
10,400.0	6,757.7	10,489.9	6,764.6	82.1	84.0	-90.61	4,158.5	-898.3	659.8	495.2	164.58	4.009		
10,500.0	6,767.6	10,589.9	6,774.6	84.0	85.8	-90.61	4,258.0	-898.3	659.8	491.5	168.37	3.919		
10,600.0	6,777.5	10,689.9	6,784.5	85.9	87.7	-90.61	4,357.5	-898.3	659.8	487.7	172.15	3.833		
10,700.0	6,787.5	10,789.9	6,794.4	87.8	89.5	-90.61	4,457.0	-898.3	659.8	483.9	175.94	3.750		
10,800.0	6,797.4	10,889.9	6,804.4	89.7	91.4	-90.61	4,556.5	-898.3	659.8	480.1	179.73	3.671		
10,900.0	6,807.3	10,989.9	6,814.3	91.6	93.3	-90.61	4,656.0	-898.3	659.8	476.3	183.53	3.595		
11,000.0	6,817.3	11,089.9	6,824.2	93.5	95.2	-90.61	4,755.5	-898.3	659.8	472.5	187.32	3.522		
11,100.0	6,827.2	11,189.9	6,834.2	95.4	97.0	-90.61	4,855.0	-898.3	659.9	468.7	191.12	3.452		
11,200.0	6,837.1	11,289.9	6,844.1	97.3	98.9	-90.61	4,954.5	-898.3	659.9	464.9	194.92	3.385		
11,300.0	6,847.1	11,389.9	6,854.0	99.2	100.8	-90.61	5,054.0	-898.3	659.9	461.1	198.72	3.320		
11,400.0	6,857.0	11,489.9	6,864.0	101.1	102.7	-90.61	5,153.5	-898.3	659.9	457.3	202.53	3.258		
11,500.0	6,866.9	11,589.9	6,873.9	103.0	104.5	-90.61	5,253.0	-898.3	659.9	453.5	206.33	3.198		
11,600.0	6,876.8	11,689.9	6,883.8	104.9	106.4	-90.61	5,352.5	-898.3	659.9	449.7	210.14	3.140		
11,700.0	6,886.8	11,789.9	6,893.8	106.8	108.3	-90.61	5,452.0	-898.3	659.9	445.9	213.94	3.084		
11,800.0	6,896.7	11,889.9	6,903.7	108.7	110.2	-90.61	5,551.5	-898.3	659.9	442.1	217.75	3.030		
11,900.0	6,906.6	11,989.9	6,913.6	110.6	112.1	-90.61	5,651.0	-898.3	659.9	438.3	221.56	2.978		
12,000.0	6,916.6	12,089.9	6,923.6	112.5	114.0	-90.61	5,750.5	-898.3	659.9	434.5	225.37	2.928		
12,100.0	6,926.5	12,189.9	6,933.5	114.4	115.8	-90.61	5,850.0	-898.3	659.9	430.7	229.18	2.879		
12,200.0	6,936.4	12,289.9	6,943.4	116.3	117.7	-90.61	5,949.6	-898.3	659.9	426.9	233.00	2.832		
12,246.1	6,941.0	12,336.0	6,948.0	117.0	118.5	-90.61	5,995.4	-898.3	659.9	425.4	234.45	2.815		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	1.2	1.2	0.0	0.0	24.68	54.5	25.1	60.0					
100.0	100.0	101.2	101.2	0.1	0.1	24.68	54.5	25.1	60.0	59.8	0.19	313.381		
200.0	200.0	201.2	201.2	0.3	0.3	24.68	54.5	25.1	60.0	59.4	0.64	93.619		
300.0	300.0	301.2	301.2	0.5	0.5	24.68	54.5	25.1	60.0	58.9	1.09	55.029		
400.0	400.0	401.2	401.2	0.8	0.8	24.68	54.5	25.1	60.0	58.5	1.54	38.967		
500.0	500.0	501.2	501.2	1.0	1.0	24.68	54.5	25.1	60.0	58.0	1.99	30.163		
600.0	600.0	601.2	601.2	1.2	1.2	24.68	54.5	25.1	60.0	57.6	2.44	24.604		
700.0	700.0	701.2	701.2	1.4	1.4	24.68	54.5	25.1	60.0	57.1	2.89	20.775		
800.0	800.0	801.2	801.2	1.7	1.7	24.68	54.5	25.1	60.0	56.7	3.34	17.977		
900.0	900.0	901.2	901.2	1.9	1.9	24.68	54.5	25.1	60.0	56.2	3.79	15.844		
1,000.0	1,000.0	1,001.2	1,001.2	2.1	2.1	24.68	54.5	25.1	60.0	55.8	4.24	14.163		
1,100.0	1,100.0	1,101.2	1,101.2	2.3	2.3	24.68	54.5	25.1	60.0	55.3	4.69	12.805		
1,200.0	1,200.0	1,201.2	1,201.2	2.6	2.6	24.68	54.5	25.1	60.0	54.9	5.14	11.684		
1,300.0	1,300.0	1,301.2	1,301.2	2.8	2.8	24.68	54.5	25.1	60.0	54.4	5.59	10.744		
1,400.0	1,400.0	1,401.2	1,401.2	3.0	3.0	24.68	54.5	25.1	60.0	54.0	6.04	9.943		
1,500.0	1,500.0	1,501.2	1,501.2	3.2	3.2	24.68	54.5	25.1	60.0	53.5	6.48	9.254		
1,600.0	1,600.0	1,601.2	1,601.2	3.5	3.5	24.68	54.5	25.1	60.0	53.1	6.93	8.654		
1,700.0	1,700.0	1,701.2	1,701.2	3.7	3.7	24.68	54.5	25.1	60.0	52.6	7.38	8.127		
1,800.0	1,800.0	1,801.2	1,801.2	3.9	3.9	24.68	54.5	25.1	60.0	52.2	7.83	7.661		
1,900.0	1,900.0	1,901.2	1,901.2	4.1	4.1	24.68	54.5	25.1	60.0	51.7	8.28	7.245		
2,000.0	2,000.0	2,001.2	2,001.2	4.4	4.4	24.68	54.5	25.1	60.0	51.3	8.73	6.872		
2,100.0	2,100.0	2,101.2	2,101.2	4.6	4.6	24.68	54.5	25.1	60.0	50.8	9.18	6.536		
2,200.0	2,200.0	2,201.2	2,201.2	4.8	4.8	24.68	54.5	25.1	60.0	50.4	9.63	6.231		
2,300.0	2,300.0	2,301.2	2,301.2	5.0	5.0	24.68	54.5	25.1	60.0	49.9	10.08	5.953		
2,400.0	2,400.0	2,401.2	2,401.2	5.3	5.3	24.68	54.5	25.1	60.0	49.5	10.53	5.699		
2,500.0	2,500.0	2,501.2	2,501.2	5.5	5.5	24.68	54.5	25.1	60.0	49.0	10.98	5.466		
2,600.0	2,600.0	2,601.2	2,601.2	5.7	5.7	24.68	54.5	25.1	60.0	48.6	11.43	5.251		
2,700.0	2,700.0	2,701.2	2,701.2	5.9	5.9	24.68	54.5	25.1	60.0	48.1	11.88	5.052		
2,800.0	2,800.0	2,801.2	2,801.2	6.2	6.2	24.68	54.5	25.1	60.0	47.7	12.33	4.868		
2,900.0	2,900.0	2,901.2	2,901.2	6.4	6.4	24.68	54.5	25.1	60.0	47.2	12.78	4.696		
3,000.0	3,000.0	3,001.2	3,001.2	6.6	6.6	24.68	54.5	25.1	60.0	46.8	13.23	4.537		
3,100.0	3,100.0	3,101.2	3,101.2	6.8	6.8	24.68	54.5	25.1	60.0	46.3	13.68	4.388		
3,200.0	3,200.0	3,201.2	3,201.2	7.1	7.1	24.68	54.5	25.1	60.0	45.9	14.13	4.248		
3,300.0	3,300.0	3,301.2	3,301.2	7.3	7.3	24.68	54.5	25.1	60.0	45.4	14.58	4.117		
3,400.0	3,400.0	3,401.2	3,401.2	7.5	7.5	24.68	54.5	25.1	60.0	45.0	15.03	3.994		
3,400.4	3,400.4	3,401.6	3,401.6	7.5	7.5	152.25	54.5	25.1	60.0	45.0	15.03	3.994 CC, ES		
3,500.0	3,500.0	3,501.6	3,501.6	7.7	7.7	154.65	53.4	26.5	61.2	45.8	15.43	3.969		
3,600.0	3,599.8	3,601.5	3,601.3	7.9	7.9	161.15	50.3	30.7	65.5	49.7	15.77	4.151		
3,700.0	3,699.5	3,700.5	3,699.9	8.1	8.1	170.01	45.0	37.6	74.1	58.0	16.11	4.600		
3,750.4	3,749.5	3,749.9	3,749.0	8.2	8.2	174.69	41.7	42.1	80.5	64.3	16.27	4.948		
3,800.0	3,798.8	3,798.2	3,796.9	8.3	8.3	179.14	37.9	47.1	88.0	71.5	16.46	5.344		
3,900.0	3,898.0	3,895.1	3,892.7	8.5	8.5	-172.66	28.8	59.1	105.1	88.3	16.84	6.243		
4,000.0	3,997.3	3,991.9	3,987.9	8.7	8.7	-166.14	18.8	72.4	124.6	107.4	17.23	7.233		
4,100.0	4,096.5	4,089.1	4,083.7	8.9	8.9	-161.38	8.7	85.7	145.3	127.7	17.64	8.239		
4,200.0	4,195.8	4,186.3	4,179.5	9.1	9.2	-157.81	-1.3	99.1	166.7	148.7	18.05	9.237		
4,300.0	4,295.0	4,283.5	4,275.3	9.4	9.4	-155.05	-11.4	112.4	188.6	170.1	18.47	10.211		
4,400.0	4,394.3	4,380.7	4,371.0	9.6	9.7	-152.87	-21.5	125.8	210.8	191.9	18.90	11.155		
4,500.0	4,493.5	4,477.9	4,466.8	9.8	10.0	-151.10	-31.6	139.1	233.3	213.9	19.34	12.064		
4,600.0	4,592.8	4,575.2	4,562.6	10.1	10.2	-149.64	-41.6	152.5	255.9	236.1	19.78	12.937		
4,700.0	4,692.0	4,672.4	4,658.3	10.3	10.5	-148.42	-51.7	165.8	278.7	258.4	20.23	13.774		
4,800.0	4,791.3	4,769.6	4,754.1	10.6	10.8	-147.39	-61.8	179.2	301.5	280.8	20.69	14.575		
4,900.0	4,890.5	4,866.8	4,849.9	10.9	11.1	-146.49	-71.8	192.5	324.5	303.3	21.15	15.341		

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 4-6H
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 4-6H	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		
5,000.0	4,989.8	4,964.0	4,945.6	11.1	11.4	-145.72	-81.9	205.8	347.5	325.9	21.62	16.072		
5,100.0	5,089.0	5,061.2	5,041.4	11.4	11.7	-145.05	-92.0	219.2	370.5	348.4	22.09	16.771		
5,200.0	5,188.3	5,158.5	5,137.2	11.7	12.1	-144.45	-102.1	232.5	393.6	371.1	22.57	17.439		
5,300.0	5,287.6	5,255.7	5,232.9	11.9	12.4	-143.92	-112.1	245.9	416.8	393.7	23.06	18.077		
5,400.0	5,386.8	5,352.9	5,328.7	12.2	12.7	-143.44	-122.2	259.2	439.9	416.4	23.54	18.686		
5,500.0	5,486.1	5,450.1	5,424.5	12.5	13.0	-143.01	-132.3	272.6	463.1	439.1	24.04	19.269		
5,591.4	5,576.8	5,539.0	5,512.0	12.7	13.3	-142.66	-141.5	284.8	484.4	459.9	24.49	19.779		
5,600.0	5,585.3	5,547.3	5,520.3	12.8	13.4	-147.31	-142.3	285.9	486.3	461.8	24.53	19.824		
5,650.0	5,635.1	5,596.7	5,568.9	12.9	13.5	174.91	-147.2	292.7	497.8	473.0	24.79	20.083		
5,700.0	5,684.8	5,647.9	5,619.6	13.0	13.7	138.21	-149.3	299.5	508.9	483.9	25.02	20.341		
5,750.0	5,734.3	5,699.5	5,670.7	13.1	13.8	118.91	-147.8	306.1	519.5	494.3	25.22	20.599		
5,800.0	5,783.3	5,751.6	5,722.2	13.2	13.9	109.08	-142.4	312.4	529.6	504.2	25.40	20.856		
5,850.0	5,831.6	5,804.2	5,773.6	13.3	14.0	103.38	-133.3	318.5	539.1	513.6	25.54	21.107		
5,900.0	5,878.9	5,857.4	5,824.8	13.4	14.1	99.68	-120.2	324.2	548.0	522.3	25.67	21.346		
5,950.0	5,925.0	5,911.0	5,875.4	13.4	14.2	97.09	-103.2	329.5	556.2	530.4	25.79	21.567		
6,000.0	5,969.7	5,965.2	5,925.1	13.5	14.2	95.19	-82.2	334.4	563.6	537.7	25.90	21.759		
6,050.0	6,012.7	6,019.8	5,973.4	13.5	14.3	93.72	-57.3	338.8	570.3	544.3	26.03	21.912		
6,100.0	6,053.9	6,074.8	6,020.2	13.6	14.3	92.58	-28.5	342.7	576.2	550.0	26.17	22.014		
6,150.0	6,093.1	6,130.2	6,064.9	13.7	14.4	91.66	4.0	346.1	581.2	554.8	26.35	22.052		
6,200.0	6,130.0	6,185.9	6,107.2	13.7	14.4	90.92	40.0	348.9	585.3	558.7	26.59	22.012		
6,250.0	6,164.5	6,241.9	6,146.9	13.8	14.4	90.33	79.4	351.0	588.4	561.6	26.89	21.886		
6,300.0	6,196.4	6,298.1	6,183.6	14.0	14.5	89.86	122.0	352.6	590.7	563.4	27.27	21.663		
6,350.0	6,225.6	6,354.4	6,216.9	14.2	14.6	89.48	167.4	353.4	592.0	564.3	27.74	21.339		
6,396.6	6,250.2	6,406.8	6,244.6	14.4	14.7	89.21	211.8	353.7	592.3	564.1	28.28	20.949		
6,400.0	6,251.8	6,410.2	6,246.3	14.4	14.7	89.21	214.7	353.7	592.3	564.0	28.32	20.917		
6,500.0	6,301.8	6,510.2	6,296.3	15.1	15.2	89.21	301.4	353.5	592.2	562.6	29.66	19.968		
6,546.6	6,325.2	6,556.8	6,319.6	15.5	15.5	89.21	341.7	353.5	592.2	561.8	30.38	19.491		
6,550.0	6,326.8	6,560.1	6,321.3	15.5	15.5	89.21	344.6	353.5	592.2	561.7	30.44	19.455		
6,600.0	6,349.7	6,609.5	6,343.7	16.0	15.9	89.21	388.5	353.4	592.1	560.8	31.30	18.918		
6,650.0	6,368.5	6,658.8	6,362.3	16.5	16.4	89.22	434.2	353.4	592.0	559.8	32.25	18.360		
6,700.0	6,383.3	6,708.1	6,376.9	17.0	16.9	89.23	481.3	353.3	592.0	558.7	33.28	17.788		
6,750.0	6,393.8	6,757.5	6,387.4	17.6	17.4	89.25	529.5	353.2	591.9	557.5	34.39	17.211		
6,789.6	6,399.1	6,796.6	6,392.8	18.1	17.9	89.26	568.2	353.2	591.9	556.5	35.32	16.757		
6,800.0	6,400.1	6,806.9	6,393.8	18.2	18.0	89.26	578.5	353.2	591.8	556.3	35.57	16.637		
6,900.0	6,410.0	6,906.9	6,403.8	19.5	19.2	89.26	678.0	353.0	591.7	553.6	38.13	15.520		
7,000.0	6,420.0	7,006.9	6,413.7	20.9	20.6	89.26	777.5	352.9	591.6	550.7	40.88	14.471		
7,100.0	6,429.9	7,106.9	6,423.6	22.4	22.0	89.26	877.0	352.8	591.4	547.6	43.80	13.503		
7,200.0	6,439.8	7,206.9	6,433.6	23.9	23.5	89.26	976.5	352.6	591.3	544.4	46.85	12.621		
7,300.0	6,449.8	7,306.9	6,443.5	25.5	25.1	89.26	1,076.0	352.5	591.2	541.1	50.01	11.820		
7,400.0	6,459.7	7,406.9	6,453.4	27.1	26.7	89.26	1,175.5	352.4	591.0	537.8	53.26	11.096		
7,500.0	6,469.6	7,506.9	6,463.4	28.8	28.3	89.26	1,275.0	352.2	590.9	534.3	56.59	10.442		
7,600.0	6,479.6	7,606.9	6,473.3	30.5	30.0	89.26	1,374.5	352.1	590.7	530.8	59.98	9.850		
7,700.0	6,489.5	7,706.9	6,483.2	32.2	31.7	89.26	1,474.0	352.0	590.6	527.2	63.42	9.313		
7,800.0	6,499.4	7,806.9	6,493.2	33.9	33.4	89.26	1,573.6	351.8	590.5	523.6	66.90	8.826		
7,900.0	6,509.4	7,906.9	6,503.1	35.7	35.1	89.26	1,673.1	351.7	590.3	519.9	70.42	8.383		
8,000.0	6,519.3	8,006.9	6,513.0	37.5	36.9	89.26	1,772.6	351.5	590.2	516.2	73.97	7.978		
8,100.0	6,529.2	8,106.9	6,522.9	39.3	38.7	89.26	1,872.1	351.4	590.1	512.5	77.55	7.608		
8,200.0	6,539.2	8,206.9	6,532.9	41.1	40.5	89.26	1,971.6	351.3	589.9	508.8	81.16	7.269		
8,300.0	6,549.1	8,306.9	6,542.8	42.9	42.3	89.26	2,071.1	351.1	589.8	505.0	84.78	6.956		
8,400.0	6,559.0	8,406.9	6,552.7	44.7	44.1	89.26	2,170.6	351.0	589.6	501.2	88.43	6.668		
8,500.0	6,569.0	8,506.9	6,562.7	46.5	45.9	89.26	2,270.1	350.9	589.5	497.4	92.09	6.401		
8,600.0	6,578.9	8,606.9	6,572.6	48.4	47.7	89.26	2,369.6	350.7	589.4	493.6	95.76	6.154		

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

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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		
8,700.0	6,588.8	8,706.9	6,582.5	50.2	49.5	89.26	2,469.1	350.6	589.2	489.8	99.45	5.925		
8,800.0	6,598.8	8,806.9	6,592.5	52.1	51.4	89.26	2,568.6	350.5	589.1	485.9	103.15	5.711		
8,900.0	6,608.7	8,906.9	6,602.4	53.9	53.2	89.26	2,668.1	350.3	589.0	482.1	106.86	5.512		
9,000.0	6,618.6	9,006.9	6,612.3	55.8	55.1	89.26	2,767.6	350.2	588.8	478.2	110.58	5.325		
9,100.0	6,628.5	9,106.9	6,622.3	57.6	56.9	89.26	2,867.1	350.1	588.7	474.4	114.30	5.150		
9,200.0	6,638.5	9,206.9	6,632.2	59.5	58.8	89.26	2,966.6	349.9	588.5	470.5	118.04	4.986		
9,300.0	6,648.4	9,306.9	6,642.1	61.4	60.7	89.26	3,066.1	349.8	588.4	466.6	121.78	4.832		
9,400.0	6,658.3	9,406.9	6,652.1	63.2	62.5	89.26	3,165.6	349.7	588.3	462.7	125.52	4.687		
9,500.0	6,668.3	9,506.9	6,662.0	65.1	64.4	89.26	3,265.1	349.5	588.1	458.9	129.28	4.549		
9,600.0	6,678.2	9,606.9	6,671.9	67.0	66.3	89.26	3,364.6	349.4	588.0	455.0	133.03	4.420		
9,700.0	6,688.1	9,706.9	6,681.9	68.9	68.2	89.26	3,464.2	349.3	587.9	451.1	136.80	4.297		
9,800.0	6,698.1	9,806.9	6,691.8	70.8	70.0	89.26	3,563.7	349.1	587.7	447.2	140.56	4.181		
9,900.0	6,708.0	9,906.9	6,701.7	72.6	71.9	89.26	3,663.2	349.0	587.6	443.2	144.33	4.071		
10,000.0	6,717.9	10,006.9	6,711.7	74.5	73.8	89.26	3,762.7	348.9	587.4	439.3	148.11	3.966		
10,100.0	6,727.9	10,106.9	6,721.6	76.4	75.7	89.26	3,862.2	348.7	587.3	435.4	151.89	3.867		
10,200.0	6,737.8	10,206.9	6,731.5	78.3	77.6	89.26	3,961.7	348.6	587.2	431.5	155.67	3.772		
10,300.0	6,747.7	10,306.9	6,741.5	80.2	79.5	89.26	4,061.2	348.5	587.0	427.6	159.45	3.682		
10,400.0	6,757.7	10,406.9	6,751.4	82.1	81.3	89.26	4,160.7	348.3	586.9	423.7	163.24	3.595		
10,500.0	6,767.6	10,506.9	6,761.3	84.0	83.2	89.26	4,260.2	348.2	586.8	419.7	167.03	3.513		
10,600.0	6,777.5	10,606.9	6,771.2	85.9	85.1	89.26	4,359.7	348.0	586.6	415.8	170.82	3.434		
10,700.0	6,787.5	10,706.9	6,781.2	87.8	87.0	89.26	4,459.2	347.9	586.5	411.9	174.61	3.359		
10,800.0	6,797.4	10,806.9	6,791.1	89.7	88.9	89.26	4,558.7	347.8	586.3	407.9	178.41	3.287		
10,900.0	6,807.3	10,906.9	6,801.0	91.6	90.8	89.26	4,658.2	347.6	586.2	404.0	182.21	3.217		
11,000.0	6,817.3	11,006.9	6,811.0	93.5	92.7	89.26	4,757.7	347.5	586.1	400.1	186.01	3.151		
11,100.0	6,827.2	11,106.9	6,820.9	95.4	94.6	89.26	4,857.2	347.4	585.9	396.1	189.81	3.087		
11,200.0	6,837.1	11,206.9	6,830.8	97.3	96.5	89.26	4,956.7	347.2	585.8	392.2	193.61	3.026		
11,300.0	6,847.1	11,306.9	6,840.8	99.2	98.4	89.26	5,056.2	347.1	585.7	388.2	197.42	2.967		
11,400.0	6,857.0	11,406.9	6,850.7	101.1	100.3	89.26	5,155.7	347.0	585.5	384.3	201.22	2.910		
11,500.0	6,866.9	11,506.9	6,860.6	103.0	102.2	89.26	5,255.3	346.8	585.4	380.4	205.03	2.855		
11,600.0	6,876.8	11,606.9	6,870.6	104.9	104.1	89.26	5,354.8	346.7	585.2	376.4	208.84	2.802		
11,700.0	6,886.8	11,706.9	6,880.5	106.8	106.0	89.26	5,454.3	346.6	585.1	372.5	212.65	2.752		
11,800.0	6,896.7	11,806.9	6,890.4	108.7	107.9	89.26	5,553.8	346.4	585.0	368.5	216.46	2.702		
11,900.0	6,906.6	11,906.9	6,900.4	110.6	109.8	89.26	5,653.3	346.3	584.8	364.6	220.27	2.655		
12,000.0	6,916.6	12,006.9	6,910.3	112.5	111.7	89.26	5,752.8	346.2	584.7	360.6	224.09	2.609		
12,100.0	6,926.5	12,106.9	6,920.2	114.4	113.6	89.26	5,852.3	346.0	584.6	356.7	227.90	2.565		
12,200.0	6,936.4	12,206.9	6,930.2	116.3	115.5	89.26	5,951.8	345.9	584.4	352.7	231.72	2.522		
12,245.3	6,940.9	12,251.7	6,934.6	117.0	116.4	89.26	5,996.4	345.8	584.4	351.1	233.27	2.505		
12,246.1	6,941.0	12,251.7	6,934.6	117.0	116.4	89.26	5,996.4	345.8	584.4	351.1	233.28	2.505 SF		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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	24.75	40.9	18.8	45.0					
100.0	100.0	101.1	101.1	0.1	0.1	24.75	40.9	18.8	45.0	44.8	0.19	235.280		
200.0	200.0	201.1	201.1	0.3	0.3	24.75	40.9	18.8	45.0	44.4	0.64	70.229		
300.0	300.0	301.1	301.1	0.5	0.5	24.75	40.9	18.8	45.0	43.9	1.09	41.275		
400.0	400.0	401.1	401.1	0.8	0.8	24.75	40.9	18.8	45.0	43.5	1.54	29.225		
500.0	500.0	501.1	501.1	1.0	1.0	24.75	40.9	18.8	45.0	43.0	1.99	22.622		
600.0	600.0	601.1	601.1	1.2	1.2	24.75	40.9	18.8	45.0	42.6	2.44	18.452		
700.0	700.0	701.1	701.1	1.4	1.4	24.75	40.9	18.8	45.0	42.1	2.89	15.580		
800.0	800.0	801.1	801.1	1.7	1.7	24.75	40.9	18.8	45.0	41.7	3.34	13.482		
900.0	900.0	901.1	901.1	1.9	1.9	24.75	40.9	18.8	45.0	41.2	3.79	11.882		
1,000.0	1,000.0	1,001.1	1,001.1	2.1	2.1	24.75	40.9	18.8	45.0	40.8	4.24	10.621		
1,100.0	1,100.0	1,101.1	1,101.1	2.3	2.3	24.75	40.9	18.8	45.0	40.3	4.69	9.603		
1,200.0	1,200.0	1,201.1	1,201.1	2.6	2.6	24.75	40.9	18.8	45.0	39.9	5.14	8.762		
1,300.0	1,300.0	1,301.1	1,301.1	2.8	2.8	24.75	40.9	18.8	45.0	39.4	5.59	8.057		
1,400.0	1,400.0	1,401.1	1,401.1	3.0	3.0	24.75	40.9	18.8	45.0	39.0	6.04	7.457		
1,500.0	1,500.0	1,501.1	1,501.1	3.2	3.2	24.75	40.9	18.8	45.0	38.5	6.48	6.940		
1,600.0	1,600.0	1,601.1	1,601.1	3.5	3.5	24.75	40.9	18.8	45.0	38.1	6.93	6.490		
1,700.0	1,700.0	1,701.1	1,701.1	3.7	3.7	24.75	40.9	18.8	45.0	37.6	7.38	6.095		
1,800.0	1,800.0	1,801.1	1,801.1	3.9	3.9	24.75	40.9	18.8	45.0	37.2	7.83	5.745		
1,900.0	1,900.0	1,901.1	1,901.1	4.1	4.1	24.75	40.9	18.8	45.0	36.7	8.28	5.433		
2,000.0	2,000.0	2,001.1	2,001.1	4.4	4.4	24.75	40.9	18.8	45.0	36.3	8.73	5.154		
2,100.0	2,100.0	2,101.1	2,101.1	4.6	4.6	24.75	40.9	18.8	45.0	35.8	9.18	4.901		
2,200.0	2,200.0	2,201.1	2,201.1	4.8	4.8	24.75	40.9	18.8	45.0	35.4	9.63	4.673		
2,300.0	2,300.0	2,301.1	2,301.1	5.0	5.0	24.75	40.9	18.8	45.0	34.9	10.08	4.464		
2,400.0	2,400.0	2,401.1	2,401.1	5.3	5.3	24.75	40.9	18.8	45.0	34.5	10.53	4.274		
2,500.0	2,500.0	2,501.1	2,501.1	5.5	5.5	24.75	40.9	18.8	45.0	34.0	10.98	4.099		
2,600.0	2,600.0	2,601.1	2,601.1	5.7	5.7	24.75	40.9	18.8	45.0	33.6	11.43	3.937		
2,700.0	2,700.0	2,701.1	2,701.1	5.9	5.9	24.75	40.9	18.8	45.0	33.1	11.88	3.788		
2,800.0	2,800.0	2,801.1	2,801.1	6.2	6.2	24.75	40.9	18.8	45.0	32.7	12.33	3.650		
2,900.0	2,900.0	2,901.1	2,901.1	6.4	6.4	24.75	40.9	18.8	45.0	32.2	12.78	3.522		
3,000.0	3,000.0	3,001.1	3,001.1	6.6	6.6	24.75	40.9	18.8	45.0	31.8	13.23	3.402		
3,100.0	3,100.0	3,101.1	3,101.1	6.8	6.8	24.75	40.9	18.8	45.0	31.3	13.68	3.290		
3,133.3	3,133.3	3,134.4	3,134.4	6.9	6.9	24.75	40.9	18.8	45.0	31.2	13.83	3.255 CC		
3,200.0	3,200.0	3,200.9	3,200.9	7.1	7.1	25.31	40.8	19.3	45.1	31.0	14.12	3.195 ES		
3,300.0	3,300.0	3,300.5	3,300.4	7.3	7.2	29.56	40.0	22.7	46.0	31.5	14.53	3.166 SF		
3,400.0	3,400.0	3,399.6	3,399.3	7.5	7.4	37.41	38.5	29.5	48.5	33.6	14.95	3.244		
3,500.0	3,500.0	3,498.1	3,497.2	7.7	7.6	175.11	36.3	39.5	55.5	40.1	15.35	3.615		
3,600.0	3,599.8	3,595.1	3,593.3	7.9	7.9	-175.34	33.4	52.5	69.6	53.9	15.71	4.431		
3,700.0	3,699.5	3,690.3	3,687.1	8.1	8.1	-168.17	29.8	68.4	91.0	74.9	16.06	5.663		
3,750.4	3,749.5	3,737.4	3,733.3	8.2	8.2	-165.46	27.9	77.4	104.3	88.1	16.24	6.425		
3,800.0	3,798.8	3,783.2	3,778.1	8.3	8.3	-163.30	25.7	86.9	118.7	102.2	16.43	7.224		
3,900.0	3,898.0	3,874.2	3,866.6	8.5	8.6	-159.78	21.1	107.7	149.9	133.1	16.81	8.917		
4,000.0	3,997.3	3,963.3	3,952.4	8.7	8.9	-157.06	16.0	130.8	184.2	167.0	17.20	10.706		
4,100.0	4,096.5	4,050.3	4,035.6	8.9	9.2	-154.87	10.4	155.8	221.3	203.7	17.60	12.575		
4,200.0	4,195.8	4,138.5	4,119.1	9.1	9.5	-153.04	4.3	183.4	260.9	242.9	18.00	14.492		
4,300.0	4,295.0	4,229.8	4,205.5	9.4	9.9	-151.60	-2.1	212.3	301.1	282.7	18.42	16.345		
4,400.0	4,394.3	4,321.2	4,291.9	9.6	10.4	-150.50	-8.5	241.2	341.4	322.5	18.84	18.115		
4,500.0	4,493.5	4,412.5	4,378.3	9.8	10.8	-149.63	-15.0	270.1	381.7	362.4	19.28	19.803		
4,600.0	4,592.8	4,503.9	4,464.8	10.1	11.3	-148.93	-21.4	299.0	422.1	402.4	19.72	21.411		
4,700.0	4,692.0	4,595.3	4,551.2	10.3	11.7	-148.35	-27.8	327.9	462.6	442.4	20.16	22.943		
4,800.0	4,791.3	4,686.6	4,637.6	10.6	12.2	-147.86	-34.2	356.8	503.1	482.5	20.62	24.402		
4,900.0	4,890.5	4,778.0	4,724.0	10.9	12.7	-147.44	-40.7	385.7	543.6	522.5	21.08	25.792		

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 4-6H
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 4-6H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDMProd
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design T7N-R80W-S7 - Marr 0780 6-6H - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-Sperry MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,989.8	4,869.3	4,810.5	11.1	13.3	-147.09	-47.1	414.7	584.2	562.6	21.54	27.116		
5,100.0	5,089.0	4,960.7	4,896.9	11.4	13.8	-146.78	-53.5	443.6	624.7	602.7	22.01	28.377		
5,200.0	5,188.3	5,052.0	4,983.3	11.7	14.3	-146.50	-59.9	472.5	665.3	642.8	22.49	29.579		
5,300.0	5,287.6	5,143.4	5,069.7	11.9	14.9	-146.26	-66.4	501.4	705.9	682.9	22.97	30.725		
5,400.0	5,386.8	5,234.7	5,156.1	12.2	15.4	-146.05	-72.8	530.3	746.5	723.0	23.46	31.818		
5,500.0	5,486.1	5,326.1	5,242.6	12.5	16.0	-145.85	-79.2	559.2	787.1	763.1	23.95	32.861		
5,591.4	5,576.8	5,409.6	5,321.6	12.7	16.5	-145.69	-85.1	585.6	824.2	799.8	24.40	33.772		
5,600.0	5,585.3	5,417.5	5,329.0	12.8	16.5	-150.50	-85.6	588.1	827.7	803.2	24.46	33.838		
5,650.0	5,635.1	5,463.1	5,372.2	12.9	16.8	170.73	-88.8	602.6	847.7	823.0	24.78	34.208		
5,700.0	5,684.8	5,508.6	5,415.2	13.0	17.1	133.23	-92.0	617.0	867.4	842.3	25.09	34.566		
5,750.0	5,734.3	5,553.6	5,457.8	13.1	17.4	113.34	-95.2	631.2	886.6	861.2	25.39	34.920		
5,800.0	5,783.3	5,598.1	5,499.8	13.2	17.6	103.14	-98.3	645.3	905.4	879.8	25.67	35.279		
5,850.0	5,831.6	5,641.6	5,541.1	13.3	17.9	97.22	-101.4	659.1	923.9	898.0	25.92	35.645		
5,900.0	5,878.9	5,684.2	5,581.3	13.4	18.2	93.44	-104.4	672.5	942.0	915.9	26.15	36.023		
5,950.0	5,925.0	5,725.4	5,620.3	13.4	18.5	90.87	-107.3	685.6	960.0	933.6	26.37	36.410		
6,000.0	5,969.7	5,764.3	5,657.1	13.5	18.7	89.00	-109.9	697.9	977.8	951.2	26.56	36.809		
6,050.0	6,012.7	5,801.5	5,692.4	13.5	18.9	87.52	-110.9	709.9	995.6	968.9	26.75	37.214		
6,100.0	6,053.9	5,839.8	5,728.5	13.6	19.1	86.36	-109.9	722.3	1,013.5	986.5	26.94	37.624		
6,150.0	6,093.1	5,879.2	5,765.6	13.7	19.3	85.45	-106.8	735.3	1,031.3	1,004.2	27.12	38.024		
6,200.0	6,130.0	5,919.9	5,803.6	13.7	19.6	84.73	-101.3	748.9	1,049.0	1,021.7	27.31	38.404		
6,250.0	6,164.5	5,962.3	5,842.7	13.8	19.8	84.19	-93.2	763.1	1,066.5	1,039.0	27.52	38.751		
6,300.0	6,196.4	6,006.6	5,882.8	14.0	20.0	83.80	-82.1	778.0	1,083.9	1,056.1	27.75	39.052		
6,350.0	6,225.6	6,053.1	5,924.2	14.2	20.2	83.56	-67.6	793.6	1,100.9	1,072.8	28.02	39.293		
6,396.6	6,250.2	6,098.8	5,963.8	14.4	20.5	83.46	-50.6	808.9	1,116.4	1,088.1	28.30	39.449		
6,400.0	6,251.8	6,102.2	5,966.7	14.4	20.5	83.57	-49.2	810.0	1,117.5	1,089.2	28.32	39.455		
6,500.0	6,301.8	6,214.9	6,058.6	15.1	21.0	86.55	4.2	846.9	1,150.5	1,121.3	29.13	39.492		
6,546.6	6,325.2	6,275.1	6,103.9	15.5	21.3	87.75	39.0	865.9	1,165.5	1,135.9	29.60	39.379		
6,550.0	6,326.8	6,279.7	6,107.2	15.5	21.3	87.71	41.8	867.4	1,166.5	1,136.9	29.64	39.363		
6,600.0	6,349.7	6,348.7	6,155.1	16.0	21.7	87.28	86.8	888.3	1,181.9	1,151.6	30.26	39.060		
6,650.0	6,368.5	6,421.3	6,200.7	16.5	22.0	86.96	139.3	909.3	1,196.3	1,165.3	30.99	38.598		
6,700.0	6,383.3	6,497.9	6,242.8	17.0	22.4	86.75	199.9	929.8	1,209.5	1,177.7	31.85	37.972		
6,750.0	6,393.8	6,546.6	6,267.2	17.6	22.7	86.23	240.1	942.3	1,222.0	1,189.3	32.70	37.375		
6,789.6	6,399.1	6,581.7	6,284.7	18.1	22.9	85.90	269.2	951.2	1,231.9	1,198.5	33.38	36.909		
6,800.0	6,400.1	6,590.8	6,289.2	18.2	22.9	86.08	276.7	953.6	1,234.5	1,200.9	33.56	36.789		
6,900.0	6,410.0	7,021.7	6,418.2	19.5	25.7	90.33	676.2	1,008.0	1,246.6	1,207.8	38.83	32.103		
7,000.0	6,420.0	7,121.7	6,428.2	20.9	26.5	90.33	775.7	1,008.0	1,246.6	1,205.2	41.45	30.072		
7,100.0	6,429.9	7,221.7	6,438.1	22.4	27.4	90.33	875.2	1,007.9	1,246.6	1,202.3	44.25	28.169		
7,200.0	6,439.8	7,321.7	6,448.0	23.9	28.5	90.33	974.7	1,007.9	1,246.5	1,199.3	47.20	26.410		
7,300.0	6,449.8	7,421.7	6,458.0	25.5	29.6	90.33	1,074.2	1,007.9	1,246.5	1,196.2	50.27	24.797		
7,400.0	6,459.7	7,521.7	6,467.9	27.1	30.8	90.33	1,173.7	1,007.8	1,246.5	1,193.0	53.43	23.327		
7,500.0	6,469.6	7,621.7	6,477.8	28.8	32.1	90.33	1,273.2	1,007.8	1,246.4	1,189.7	56.69	21.988		
7,600.0	6,479.6	7,721.7	6,487.8	30.5	33.5	90.33	1,372.7	1,007.8	1,246.4	1,186.4	60.01	20.771		
7,700.0	6,489.5	7,821.7	6,497.7	32.2	34.9	90.33	1,472.2	1,007.7	1,246.4	1,183.0	63.39	19.663		
7,800.0	6,499.4	7,921.7	6,507.6	33.9	36.4	90.33	1,571.7	1,007.7	1,246.3	1,179.5	66.82	18.653		
7,900.0	6,509.4	8,021.7	6,517.6	35.7	37.9	90.33	1,671.2	1,007.7	1,246.3	1,176.0	70.29	17.730		
8,000.0	6,519.3	8,121.7	6,527.5	37.5	39.5	90.33	1,770.7	1,007.6	1,246.2	1,172.4	73.80	16.887		
8,100.0	6,529.2	8,221.7	6,537.4	39.3	41.1	90.33	1,870.2	1,007.6	1,246.2	1,168.9	77.34	16.113		
8,200.0	6,539.2	8,321.7	6,547.4	41.1	42.7	90.33	1,969.7	1,007.6	1,246.2	1,165.3	80.91	15.402		
8,300.0	6,549.1	8,421.7	6,557.3	42.9	44.4	90.33	2,069.3	1,007.5	1,246.1	1,161.6	84.50	14.747		
8,400.0	6,559.0	8,521.7	6,567.2	44.7	46.1	90.33	2,168.8	1,007.5	1,246.1	1,158.0	88.12	14.141		
8,500.0	6,569.0	8,621.7	6,577.2	46.5	47.8	90.33	2,268.3	1,007.5	1,246.1	1,154.3	91.75	13.581		
8,600.0	6,578.9	8,721.7	6,587.1	48.4	49.5	90.33	2,367.8	1,007.4	1,246.0	1,150.6	95.40	13.061		

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 4-6H
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 4-6H	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		
8,700.0	6,588.8	8,821.7	6,597.0	50.2	51.2	90.33	2,467.3	1,007.4	1,246.0	1,146.9	99.06	12.578		
8,800.0	6,598.8	8,921.7	6,607.0	52.1	52.9	90.33	2,566.8	1,007.4	1,245.9	1,143.2	102.74	12.127		
8,900.0	6,608.7	9,021.7	6,616.9	53.9	54.7	90.33	2,666.3	1,007.3	1,245.9	1,139.5	106.43	11.707		
9,000.0	6,618.6	9,121.7	6,626.8	55.8	56.5	90.33	2,765.8	1,007.3	1,245.9	1,135.7	110.13	11.313		
9,100.0	6,628.5	9,221.7	6,636.7	57.6	58.2	90.33	2,865.3	1,007.3	1,245.8	1,132.0	113.84	10.944		
9,200.0	6,638.5	9,321.7	6,646.7	59.5	60.0	90.33	2,964.8	1,007.2	1,245.8	1,128.2	117.55	10.598		
9,300.0	6,648.4	9,421.7	6,656.6	61.4	61.8	90.33	3,064.3	1,007.2	1,245.8	1,124.5	121.28	10.272		
9,400.0	6,658.3	9,521.7	6,666.5	63.2	63.6	90.33	3,163.8	1,007.1	1,245.7	1,120.7	125.01	9.965		
9,500.0	6,668.3	9,621.7	6,676.5	65.1	65.4	90.33	3,263.3	1,007.1	1,245.7	1,116.9	128.75	9.675		
9,600.0	6,678.2	9,721.7	6,686.4	67.0	67.2	90.33	3,362.8	1,007.1	1,245.7	1,113.2	132.49	9.402		
9,700.0	6,688.1	9,821.7	6,696.3	68.9	69.1	90.33	3,462.3	1,007.0	1,245.6	1,109.4	136.24	9.142		
9,800.0	6,698.1	9,921.7	6,706.3	70.8	70.9	90.33	3,561.8	1,007.0	1,245.6	1,105.6	140.00	8.897		
9,900.0	6,708.0	10,021.7	6,716.2	72.6	72.7	90.33	3,661.3	1,007.0	1,245.5	1,101.8	143.76	8.664		
10,000.0	6,717.9	10,121.7	6,726.1	74.5	74.6	90.33	3,760.8	1,006.9	1,245.5	1,098.0	147.52	8.443		
10,100.0	6,727.9	10,221.7	6,736.1	76.4	76.4	90.33	3,860.4	1,006.9	1,245.5	1,094.2	151.29	8.232		
10,200.0	6,737.8	10,321.7	6,746.0	78.3	78.2	90.33	3,959.9	1,006.9	1,245.4	1,090.4	155.06	8.032		
10,300.0	6,747.7	10,421.7	6,755.9	80.2	80.1	90.33	4,059.4	1,006.8	1,245.4	1,086.6	158.84	7.841		
10,400.0	6,757.7	10,521.7	6,765.9	82.1	81.9	90.33	4,158.9	1,006.8	1,245.4	1,082.7	162.62	7.658		
10,500.0	6,767.6	10,621.7	6,775.8	84.0	83.8	90.33	4,258.4	1,006.8	1,245.3	1,078.9	166.40	7.484		
10,600.0	6,777.5	10,721.7	6,785.7	85.9	85.7	90.33	4,357.9	1,006.7	1,245.3	1,075.1	170.18	7.317		
10,700.0	6,787.5	10,821.7	6,795.7	87.8	87.5	90.33	4,457.4	1,006.7	1,245.2	1,071.3	173.97	7.158		
10,800.0	6,797.4	10,921.7	6,805.6	89.7	89.4	90.33	4,556.9	1,006.7	1,245.2	1,067.5	177.76	7.005		
10,900.0	6,807.3	11,021.7	6,815.5	91.6	91.2	90.33	4,656.4	1,006.6	1,245.2	1,063.6	181.55	6.859		
11,000.0	6,817.3	11,121.7	6,825.5	93.5	93.1	90.33	4,755.9	1,006.6	1,245.1	1,059.8	185.34	6.718		
11,100.0	6,827.2	11,221.7	6,835.4	95.4	95.0	90.33	4,855.4	1,006.6	1,245.1	1,056.0	189.14	6.583		
11,200.0	6,837.1	11,321.7	6,845.3	97.3	96.9	90.33	4,954.9	1,006.5	1,245.1	1,052.1	192.94	6.453		
11,300.0	6,847.1	11,421.7	6,855.3	99.2	98.7	90.33	5,054.4	1,006.5	1,245.0	1,048.3	196.74	6.328		
11,400.0	6,857.0	11,521.7	6,865.2	101.1	100.6	90.33	5,153.9	1,006.5	1,245.0	1,044.5	200.54	6.208		
11,500.0	6,866.9	11,621.7	6,875.1	103.0	102.5	90.33	5,253.4	1,006.4	1,245.0	1,040.6	204.34	6.093		
11,600.0	6,876.8	11,721.7	6,885.0	104.9	104.4	90.33	5,352.9	1,006.4	1,244.9	1,036.8	208.14	5.981		
11,700.0	6,886.8	11,821.7	6,895.0	106.8	106.2	90.33	5,452.4	1,006.4	1,244.9	1,032.9	211.95	5.874		
11,800.0	6,896.7	11,921.7	6,904.9	108.7	108.1	90.33	5,551.9	1,006.3	1,244.8	1,029.1	215.75	5.770		
11,900.0	6,906.6	12,021.7	6,914.8	110.6	110.0	90.33	5,651.5	1,006.3	1,244.8	1,025.2	219.56	5.670		
12,000.0	6,916.6	12,121.7	6,924.8	112.5	111.9	90.33	5,751.0	1,006.3	1,244.8	1,021.4	223.37	5.573		
12,100.0	6,926.5	12,221.7	6,934.7	114.4	113.8	90.33	5,850.5	1,006.2	1,244.7	1,017.6	227.18	5.479		
12,200.0	6,936.4	12,321.7	6,944.6	116.3	115.7	90.33	5,950.0	1,006.2	1,244.7	1,013.7	230.99	5.388		
12,246.1	6,941.0	12,367.8	6,949.2	117.0	116.5	90.33	5,995.8	1,006.2	1,244.7	1,012.1	232.58	5.352		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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	24.77	27.3	12.6	30.0					
100.0	100.0	101.0	101.0	0.1	0.1	24.77	27.3	12.6	30.0	29.8	0.19	157.145		
200.0	200.0	201.0	201.0	0.3	0.3	24.77	27.3	12.6	30.0	29.4	0.64	46.868		
300.0	300.0	301.0	301.0	0.5	0.5	24.77	27.3	12.6	30.0	28.9	1.09	27.541		
400.0	400.0	401.0	401.0	0.8	0.8	24.77	27.3	12.6	30.0	28.5	1.54	19.500		
500.0	500.0	501.0	501.0	1.0	1.0	24.77	27.3	12.6	30.0	28.0	1.99	15.093		
600.0	600.0	601.0	601.0	1.2	1.2	24.77	27.3	12.6	30.0	27.6	2.44	12.311		
700.0	700.0	701.0	701.0	1.4	1.4	24.77	27.3	12.6	30.0	27.1	2.89	10.395		
800.0	800.0	801.0	801.0	1.7	1.7	24.77	27.3	12.6	30.0	26.7	3.34	8.995		
900.0	900.0	901.0	901.0	1.9	1.9	24.77	27.3	12.6	30.0	26.2	3.79	7.927		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.77	27.3	12.6	30.0	25.8	4.24	7.086		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.77	27.3	12.6	30.0	25.3	4.69	6.406		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.77	27.3	12.6	30.0	24.9	5.14	5.846		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.77	27.3	12.6	30.0	24.4	5.59	5.375		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.77	27.3	12.6	30.0	24.0	6.03	4.975		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.77	27.3	12.6	30.0	23.5	6.48	4.630		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.77	27.3	12.6	30.0	23.1	6.93	4.330		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.77	27.3	12.6	30.0	22.6	7.38	4.066		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.77	27.3	12.6	30.0	22.2	7.83	3.833		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.77	27.3	12.6	30.0	21.7	8.28	3.625		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.77	27.3	12.6	30.0	21.3	8.73	3.438		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.77	27.3	12.6	30.0	20.8	9.18	3.270		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.77	27.3	12.6	30.0	20.4	9.63	3.117		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.77	27.3	12.6	30.0	19.9	10.08	2.978		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.77	27.3	12.6	30.0	19.5	10.53	2.851		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.77	27.3	12.6	30.0	19.0	10.98	2.734		
2,600.0	2,600.0	2,601.0	2,601.0	5.7	5.7	24.77	27.3	12.6	30.0	18.6	11.43	2.627		
2,700.0	2,700.0	2,701.0	2,701.0	5.9	5.9	24.77	27.3	12.6	30.0	18.1	11.88	2.527		
2,800.0	2,800.0	2,801.0	2,801.0	6.2	6.2	24.77	27.3	12.6	30.0	17.7	12.33	2.435		
2,866.3	2,866.3	2,867.3	2,867.3	6.3	6.3	24.77	27.3	12.6	30.0	17.4	12.63	2.378 CC		
2,900.0	2,900.0	2,901.0	2,901.0	6.4	6.4	24.77	27.3	12.6	30.0	17.2	12.78	2.350 ES		
3,000.0	3,000.0	3,000.6	3,000.6	6.6	6.6	27.88	27.1	14.3	30.7	17.5	13.21	2.321 SF		
3,100.0	3,100.0	3,100.0	3,099.8	6.8	6.8	36.23	26.7	19.5	33.1	19.4	13.63	2.426		
3,200.0	3,200.0	3,198.8	3,198.3	7.1	7.0	47.31	25.9	28.1	38.3	24.3	14.06	2.725		
3,300.0	3,300.0	3,297.0	3,295.7	7.3	7.2	58.06	24.9	39.9	47.4	32.9	14.50	3.266		
3,400.0	3,400.0	3,394.3	3,391.8	7.5	7.4	66.76	23.6	55.0	60.5	45.6	14.95	4.047		
3,500.0	3,500.0	3,490.1	3,485.9	7.7	7.7	-159.57	22.1	72.9	79.3	63.9	15.30	5.179		
3,600.0	3,599.8	3,583.8	3,577.3	7.9	7.9	-155.91	20.3	93.5	104.7	89.0	15.67	6.683		
3,700.0	3,699.5	3,674.9	3,665.5	8.1	8.2	-153.81	18.3	116.4	136.3	120.3	16.02	8.511		
3,750.4	3,749.5	3,719.7	3,708.6	8.2	8.4	-153.12	17.2	128.6	154.5	138.3	16.19	9.541		
3,800.0	3,798.8	3,764.3	3,751.3	8.3	8.5	-152.70	16.1	141.5	173.5	157.1	16.39	10.586		
3,900.0	3,898.0	3,855.2	3,838.1	8.5	8.9	-152.03	13.8	168.4	212.4	195.6	16.77	12.659		
4,000.0	3,997.3	3,947.3	3,926.0	8.7	9.3	-151.56	11.5	195.7	251.3	234.1	17.17	14.633		
4,100.0	4,096.5	4,039.4	4,013.9	8.9	9.7	-151.21	9.1	222.9	290.2	272.6	17.58	16.510		
4,200.0	4,195.8	4,131.5	4,101.9	9.1	10.1	-150.95	6.7	250.2	329.2	311.2	17.99	18.295		
4,300.0	4,295.0	4,223.6	4,189.8	9.4	10.5	-150.74	4.4	277.5	368.1	349.7	18.41	19.991		
4,400.0	4,394.3	4,315.7	4,277.7	9.6	11.0	-150.57	2.0	304.7	407.1	388.2	18.84	21.603		
4,500.0	4,493.5	4,407.8	4,365.7	9.8	11.4	-150.44	-0.3	332.0	446.0	426.7	19.28	23.136		
4,600.0	4,592.8	4,499.9	4,453.6	10.1	11.9	-150.32	-2.7	359.3	485.0	465.2	19.72	24.593		
4,700.0	4,692.0	4,592.0	4,541.6	10.3	12.4	-150.22	-5.0	386.5	523.9	503.7	20.17	25.978		
4,800.0	4,791.3	4,684.1	4,629.5	10.6	12.9	-150.13	-7.4	413.8	562.9	542.2	20.62	27.296		
4,900.0	4,890.5	4,776.2	4,717.4	10.9	13.4	-150.06	-9.7	441.1	601.8	580.7	21.08	28.551		

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 4-6H
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 4-6H	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	4,989.8	4,868.3	4,805.4	11.1	13.9	-149.99	-12.1	468.3	640.8	619.2	21.54	29.746		
5,100.0	5,089.0	4,960.4	4,893.3	11.4	14.4	-149.94	-14.4	495.6	679.7	657.7	22.01	30.883		
5,200.0	5,188.3	5,052.5	4,981.2	11.7	14.9	-149.89	-16.8	522.9	718.7	696.2	22.48	31.968		
5,300.0	5,287.6	5,144.6	5,069.2	11.9	15.4	-149.84	-19.1	550.1	757.7	734.7	22.96	33.002		
5,400.0	5,386.8	5,236.7	5,157.1	12.2	16.0	-149.80	-21.5	577.4	796.6	773.2	23.44	33.989		
5,500.0	5,486.1	5,328.8	5,245.1	12.5	16.5	-149.76	-23.9	604.7	835.6	811.7	23.92	34.931		
5,591.4	5,576.8	5,413.0	5,325.5	12.7	17.0	-149.73	-26.0	629.6	871.2	846.8	24.37	35.755		
5,600.0	5,585.3	5,420.9	5,333.0	12.8	17.0	-154.53	-26.2	631.9	874.5	850.1	24.42	35.810		
5,650.0	5,635.1	5,467.0	5,377.0	12.9	17.3	166.75	-27.4	645.6	893.6	868.9	24.74	36.117		
5,700.0	5,684.8	5,513.1	5,421.1	13.0	17.6	129.30	-28.6	659.2	912.0	887.0	25.05	36.407		
5,750.0	5,734.3	5,558.9	5,464.8	13.1	17.8	109.48	-29.7	672.8	929.8	904.5	25.34	36.690		
5,800.0	5,783.3	5,604.3	5,508.1	13.2	18.1	99.36	-30.9	686.2	946.9	921.3	25.61	36.975		
5,850.0	5,831.6	5,648.9	5,550.7	13.3	18.4	93.56	-32.0	699.4	963.4	937.5	25.85	37.267		
5,900.0	5,878.9	5,683.3	5,583.6	13.4	18.6	89.68	-32.9	709.7	979.4	953.3	26.06	37.589		
5,950.0	5,925.0	5,700.0	5,599.4	13.4	18.7	86.49	-33.4	714.9	995.8	969.5	26.22	37.976		
6,000.0	5,969.7	5,718.0	5,616.3	13.5	18.8	84.01	-33.9	721.0	1,012.7	986.3	26.38	38.385		
6,050.0	6,012.7	5,733.9	5,631.1	13.5	18.9	81.88	-34.4	726.8	1,030.3	1,003.7	26.54	38.825		
6,100.0	6,053.9	5,750.0	5,646.0	13.6	19.0	80.05	-34.9	732.9	1,048.3	1,021.7	26.69	39.284		
6,150.0	6,093.1	5,750.0	5,646.0	13.7	19.0	77.77	-34.9	732.9	1,067.1	1,040.3	26.81	39.808		
6,200.0	6,130.0	5,775.1	5,668.9	13.7	19.2	76.65	-35.8	743.2	1,086.1	1,059.1	26.98	40.255		
6,250.0	6,164.5	5,800.0	5,691.3	13.8	19.4	75.68	-36.8	754.1	1,105.9	1,078.7	27.16	40.713		
6,300.0	6,196.4	5,800.0	5,691.3	14.0	19.4	73.68	-36.8	754.1	1,125.7	1,098.4	27.28	41.263		
6,350.0	6,225.6	5,800.0	5,691.3	14.2	19.4	71.72	-36.8	754.1	1,146.1	1,118.7	27.39	41.845		
6,396.6	6,250.2	5,800.0	5,691.3	14.4	19.4	69.92	-36.8	754.1	1,165.5	1,138.1	27.48	42.415		
6,400.0	6,251.8	5,800.0	5,691.3	14.4	19.4	69.92	-36.8	754.1	1,167.0	1,139.5	27.50	42.434		
6,500.0	6,301.8	5,829.9	5,717.5	15.1	19.7	71.36	-38.0	768.2	1,211.8	1,183.4	28.35	42.742		
6,546.6	6,325.2	5,850.0	5,734.9	15.5	19.9	72.32	-38.9	778.4	1,235.0	1,206.2	28.82	42.848		
6,550.0	6,326.8	5,850.0	5,734.9	15.5	19.9	72.14	-38.9	778.4	1,236.7	1,207.8	28.84	42.886		
6,600.0	6,349.7	5,850.0	5,734.9	16.0	19.9	69.37	-38.9	778.4	1,262.0	1,233.0	29.00	43.510		
6,650.0	6,368.5	5,850.0	5,734.9	16.5	19.9	66.62	-38.9	778.4	1,287.5	1,258.4	29.10	44.242		
6,700.0	6,383.3	5,850.0	5,734.9	17.0	19.9	63.94	-38.9	778.4	1,312.9	1,283.7	29.13	45.072		
6,750.0	6,393.8	5,850.0	5,734.9	17.6	19.9	61.36	-38.9	778.4	1,338.0	1,308.9	29.10	45.975		
6,789.6	6,399.1	5,850.0	5,734.9	18.1	19.9	59.39	-38.9	778.4	1,357.7	1,328.6	29.06	46.716		
6,800.0	6,400.1	5,850.0	5,734.9	18.2	19.9	59.39	-38.9	778.4	1,362.8	1,333.7	29.17	46.715		
6,900.0	6,410.0	5,850.0	5,734.9	19.5	19.9	59.39	-38.9	778.4	1,415.3	1,385.0	30.30	46.718		
7,000.0	6,420.0	5,850.0	5,734.9	20.9	19.9	59.39	-38.9	778.4	1,472.7	1,441.2	31.50	46.746		
7,100.0	6,429.9	5,850.0	5,734.9	22.4	19.9	59.39	-38.9	778.4	1,534.5	1,501.7	32.79	46.805		
7,200.0	6,439.8	5,850.0	5,734.9	23.9	19.9	59.39	-38.9	778.4	1,600.1	1,566.0	34.12	46.891		
7,300.0	6,449.8	5,850.0	5,734.9	25.5	19.9	59.39	-38.9	778.4	1,669.2	1,633.7	35.51	47.004		
7,400.0	6,459.7	5,850.0	5,734.9	27.1	19.9	59.39	-38.9	778.4	1,741.3	1,704.3	36.94	47.138		
7,500.0	6,469.6	5,850.0	5,734.9	28.8	19.9	59.39	-38.9	778.4	1,816.0	1,777.6	38.40	47.291		
7,600.0	6,479.6	5,867.5	5,749.8	30.5	20.1	60.24	-39.6	787.6	1,892.8	1,852.6	40.17	47.125		
7,700.0	6,489.5	5,881.6	5,761.4	32.2	43.8	90.63	1,471.0	1,667.8	1,906.5	1,843.0	63.54	30.007		
7,800.0	6,499.4	5,881.6	5,761.4	33.9	44.8	90.63	1,570.5	1,667.8	1,906.5	1,839.6	66.92	28.491		
7,900.0	6,509.4	5,881.6	5,761.4	35.7	45.7	90.63	1,670.0	1,667.7	1,906.4	1,836.1	70.34	27.102		
8,000.0	6,519.3	5,881.6	5,761.4	37.5	46.8	90.63	1,769.5	1,667.7	1,906.4	1,832.6	73.81	25.828		
8,100.0	6,529.2	5,881.6	5,761.4	39.3	47.9	90.63	1,869.0	1,667.7	1,906.4	1,829.1	77.31	24.658		
8,200.0	6,539.2	5,881.6	5,761.4	41.1	49.1	90.63	1,968.5	1,667.7	1,906.4	1,825.5	80.85	23.579		
8,300.0	6,549.1	5,881.6	5,761.4	42.9	50.3	90.63	2,068.0	1,667.6	1,906.3	1,821.9	84.41	22.584		
8,400.0	6,559.0	5,881.6	5,761.4	44.7	51.6	90.63	2,167.5	1,667.6	1,906.3	1,818.3	87.99	21.664		
8,500.0	6,569.0	5,881.6	5,761.4	46.5	53.0	90.63	2,267.0	1,667.6	1,906.3	1,814.7	91.60	20.811		
8,600.0	6,578.9	5,881.6	5,761.4	48.4	54.4	90.63	2,366.5	1,667.5	1,906.2	1,811.0	95.22	20.018		

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 4-6H
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 4-6H	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		
8,700.0	6,588.8	9,281.6	6,610.7	50.2	55.8	90.63	2,466.0	1,667.5	1,906.2	1,807.3	98.87	19.281		
8,800.0	6,598.8	9,381.6	6,620.7	52.1	57.3	90.63	2,565.5	1,667.5	1,906.2	1,803.7	102.52	18.593		
8,900.0	6,608.7	9,481.6	6,630.6	53.9	58.8	90.63	2,665.0	1,667.5	1,906.1	1,800.0	106.19	17.950		
9,000.0	6,618.6	9,581.6	6,640.5	55.8	60.3	90.63	2,764.5	1,667.4	1,906.1	1,796.2	109.87	17.349		
9,100.0	6,628.5	9,681.6	6,650.5	57.6	61.9	90.63	2,864.0	1,667.4	1,906.1	1,792.5	113.56	16.784		
9,200.0	6,638.5	9,781.6	6,660.4	59.5	63.5	90.63	2,963.5	1,667.4	1,906.0	1,788.8	117.26	16.254		
9,300.0	6,648.4	9,881.6	6,670.3	61.4	65.1	90.63	3,063.0	1,667.3	1,906.0	1,785.0	120.97	15.756		
9,400.0	6,658.3	9,981.6	6,680.3	63.2	66.7	90.63	3,162.5	1,667.3	1,906.0	1,781.3	124.69	15.286		
9,500.0	6,668.3	10,081.6	6,690.2	65.1	68.4	90.63	3,262.1	1,667.3	1,906.0	1,777.5	128.42	14.842		
9,600.0	6,678.2	10,181.6	6,700.1	67.0	70.1	90.63	3,361.6	1,667.3	1,905.9	1,773.8	132.15	14.423		
9,700.0	6,688.1	10,281.6	6,710.1	68.9	71.7	90.63	3,461.1	1,667.2	1,905.9	1,770.0	135.89	14.026		
9,800.0	6,698.1	10,381.6	6,720.0	70.8	73.5	90.63	3,560.6	1,667.2	1,905.9	1,766.2	139.63	13.649		
9,900.0	6,708.0	10,481.6	6,729.9	72.6	75.2	90.63	3,660.1	1,667.2	1,905.8	1,762.5	143.38	13.292		
10,000.0	6,717.9	10,581.6	6,739.8	74.5	76.9	90.63	3,759.6	1,667.1	1,905.8	1,758.7	147.13	12.953		
10,100.0	6,727.9	10,681.6	6,749.8	76.4	78.6	90.63	3,859.1	1,667.1	1,905.8	1,754.9	150.89	12.630		
10,200.0	6,737.8	10,781.6	6,759.7	78.3	80.4	90.63	3,958.6	1,667.1	1,905.7	1,751.1	154.66	12.322		
10,300.0	6,747.7	10,881.6	6,769.6	80.2	82.1	90.63	4,058.1	1,667.1	1,905.7	1,747.3	158.42	12.029		
10,400.0	6,757.7	10,981.6	6,779.6	82.1	83.9	90.63	4,157.6	1,667.0	1,905.7	1,743.5	162.19	11.749		
10,500.0	6,767.6	11,081.6	6,789.5	84.0	85.7	90.63	4,257.1	1,667.0	1,905.7	1,739.7	165.97	11.482		
10,600.0	6,777.5	11,181.6	6,799.4	85.9	87.5	90.63	4,356.6	1,667.0	1,905.6	1,735.9	169.74	11.227		
10,700.0	6,787.5	11,281.6	6,809.4	87.8	89.3	90.63	4,456.1	1,667.0	1,905.6	1,732.1	173.52	10.982		
10,800.0	6,797.4	11,381.6	6,819.3	89.7	91.1	90.63	4,555.6	1,666.9	1,905.6	1,728.3	177.30	10.747		
10,900.0	6,807.3	11,481.6	6,829.2	91.6	92.9	90.63	4,655.1	1,666.9	1,905.5	1,724.4	181.09	10.523		
11,000.0	6,817.3	11,581.6	6,839.2	93.5	94.7	90.63	4,754.6	1,666.9	1,905.5	1,720.6	184.88	10.307		
11,100.0	6,827.2	11,681.6	6,849.1	95.4	96.5	90.63	4,854.1	1,666.8	1,905.5	1,716.8	188.67	10.100		
11,200.0	6,837.1	11,781.6	6,859.0	97.3	98.3	90.63	4,953.6	1,666.8	1,905.4	1,713.0	192.46	9.901		
11,300.0	6,847.1	11,881.6	6,869.0	99.2	100.1	90.63	5,053.2	1,666.8	1,905.4	1,709.2	196.25	9.709		
11,400.0	6,857.0	11,981.6	6,878.9	101.1	101.9	90.63	5,152.7	1,666.8	1,905.4	1,705.3	200.05	9.525		
11,500.0	6,866.9	12,081.6	6,888.8	103.0	103.8	90.63	5,252.2	1,666.7	1,905.3	1,701.5	203.84	9.347		
11,600.0	6,876.8	12,181.6	6,898.8	104.9	105.6	90.63	5,351.7	1,666.7	1,905.3	1,697.7	207.64	9.176		
11,700.0	6,886.8	12,281.6	6,908.7	106.8	107.4	90.63	5,451.2	1,666.7	1,905.3	1,693.8	211.44	9.011		
11,800.0	6,896.7	12,381.6	6,918.6	108.7	109.3	90.63	5,550.7	1,666.6	1,905.3	1,690.0	215.24	8.852		
11,900.0	6,906.6	12,481.6	6,928.6	110.6	111.1	90.63	5,650.2	1,666.6	1,905.2	1,686.2	219.05	8.698		
12,000.0	6,916.6	12,581.6	6,938.5	112.5	113.0	90.63	5,749.7	1,666.6	1,905.2	1,682.3	222.85	8.549		
12,100.0	6,926.5	12,681.6	6,948.4	114.4	114.8	90.63	5,849.2	1,666.6	1,905.2	1,678.5	226.66	8.405		
12,200.0	6,936.4	12,781.6	6,958.4	116.3	116.7	90.63	5,948.7	1,666.5	1,905.1	1,674.7	230.47	8.266		
12,246.1	6,941.0	12,827.7	6,962.9	117.0	117.5	90.63	5,994.6	1,666.5	1,905.1	1,673.1	232.05	8.210		

SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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	24.58	13.7	6.3	15.1					
100.0	100.0	101.0	101.0	0.1	0.1	24.58	13.7	6.3	15.1	14.9	0.19	78.909		
200.0	200.0	201.0	201.0	0.3	0.3	24.58	13.7	6.3	15.1	14.4	0.64	23.534		
300.0	300.0	301.0	301.0	0.5	0.5	24.58	13.7	6.3	15.1	14.0	1.09	13.829		
400.0	400.0	401.0	401.0	0.8	0.8	24.58	13.7	6.3	15.1	13.5	1.54	9.792		
500.0	500.0	501.0	501.0	1.0	1.0	24.58	13.7	6.3	15.1	13.1	1.99	7.579		
600.0	600.0	601.0	601.0	1.2	1.2	24.58	13.7	6.3	15.1	12.6	2.44	6.182		
700.0	700.0	701.0	701.0	1.4	1.4	24.58	13.7	6.3	15.1	12.2	2.89	5.220		
800.0	800.0	801.0	801.0	1.7	1.7	24.58	13.7	6.3	15.1	11.7	3.34	4.517		
900.0	900.0	901.0	901.0	1.9	1.9	24.58	13.7	6.3	15.1	11.3	3.79	3.981		
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	24.58	13.7	6.3	15.1	10.8	4.24	3.558		
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	24.58	13.7	6.3	15.1	10.4	4.69	3.217		
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	24.58	13.7	6.3	15.1	9.9	5.14	2.935		
1,300.0	1,300.0	1,301.0	1,301.0	2.8	2.8	24.58	13.7	6.3	15.1	9.5	5.59	2.699		
1,400.0	1,400.0	1,401.0	1,401.0	3.0	3.0	24.58	13.7	6.3	15.1	9.0	6.03	2.498		
1,500.0	1,500.0	1,501.0	1,501.0	3.2	3.2	24.58	13.7	6.3	15.1	8.6	6.48	2.325		
1,600.0	1,600.0	1,601.0	1,601.0	3.5	3.5	24.58	13.7	6.3	15.1	8.1	6.93	2.174		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	24.58	13.7	6.3	15.1	7.7	7.38	2.042		
1,800.0	1,800.0	1,801.0	1,801.0	3.9	3.9	24.58	13.7	6.3	15.1	7.2	7.83	1.925 Level 4		
1,900.0	1,900.0	1,901.0	1,901.0	4.1	4.1	24.58	13.7	6.3	15.1	6.8	8.28	1.820 Level 4		
2,000.0	2,000.0	2,001.0	2,001.0	4.4	4.4	24.58	13.7	6.3	15.1	6.3	8.73	1.726 Level 4		
2,100.0	2,100.0	2,101.0	2,101.0	4.6	4.6	24.58	13.7	6.3	15.1	5.9	9.18	1.642 Level 4		
2,200.0	2,200.0	2,201.0	2,201.0	4.8	4.8	24.58	13.7	6.3	15.1	5.4	9.63	1.565 Level 4		
2,300.0	2,300.0	2,301.0	2,301.0	5.0	5.0	24.58	13.7	6.3	15.1	5.0	10.08	1.495 Level 3		
2,400.0	2,400.0	2,401.0	2,401.0	5.3	5.3	24.58	13.7	6.3	15.1	4.5	10.53	1.432 Level 3		
2,466.3	2,466.3	2,467.3	2,467.3	5.4	5.4	24.58	13.7	6.3	15.1	4.2	10.83	1.392 Level 3, CC		
2,500.0	2,500.0	2,501.0	2,501.0	5.5	5.5	24.58	13.7	6.3	15.1	4.1	10.98	1.373 Level 3, ES, SF		
2,600.0	2,600.0	2,600.7	2,600.7	5.7	5.7	30.39	13.7	8.0	15.9	4.5	11.42	1.393 Level 3		
2,700.0	2,700.0	2,700.2	2,700.1	5.9	5.9	44.05	13.7	13.3	19.1	7.3	11.84	1.613 Level 4		
2,800.0	2,800.0	2,799.2	2,798.7	6.2	6.1	57.93	13.7	21.9	25.9	13.7	12.27	2.113		
2,900.0	2,900.0	2,897.6	2,896.3	6.4	6.3	67.93	13.7	33.8	36.8	24.1	12.71	2.894		
3,000.0	3,000.0	2,994.9	2,992.5	6.6	6.6	74.34	13.7	48.9	51.5	38.3	13.17	3.913		
3,100.0	3,100.0	3,091.2	3,087.0	6.8	6.8	78.44	13.7	67.0	69.9	56.2	13.63	5.125		
3,200.0	3,200.0	3,186.0	3,179.5	7.1	7.1	81.15	13.7	88.0	91.6	77.5	14.12	6.492		
3,300.0	3,300.0	3,279.4	3,269.9	7.3	7.4	83.00	13.7	111.6	116.7	102.1	14.62	7.984		
3,400.0	3,400.0	3,371.1	3,357.8	7.5	7.7	84.31	13.7	137.7	145.0	129.8	15.15	9.572		
3,500.0	3,500.0	3,460.6	3,442.7	7.7	8.1	-147.09	13.7	165.8	177.7	162.5	15.22	11.672		
3,600.0	3,599.8	3,547.1	3,523.9	7.9	8.5	-146.64	13.7	195.5	216.0	200.4	15.58	13.860		
3,700.0	3,699.5	3,630.1	3,601.1	8.1	9.0	-146.48	13.7	226.3	259.7	243.7	15.93	16.296		
3,750.4	3,749.5	3,670.6	3,638.3	8.2	9.2	-146.46	13.7	242.1	283.6	267.5	16.11	17.610		
3,800.0	3,798.8	3,709.7	3,674.1	8.3	9.4	-146.73	13.7	257.9	308.1	291.8	16.29	18.914		
3,900.0	3,898.0	3,790.3	3,747.2	8.5	10.0	-147.15	13.7	291.8	359.1	342.4	16.68	21.536		
4,000.0	3,997.3	3,876.0	3,824.8	8.7	10.6	-147.48	13.7	328.2	410.6	393.5	17.07	24.046		
4,100.0	4,096.5	3,961.8	3,902.4	8.9	11.2	-147.73	13.7	364.7	462.0	444.5	17.48	26.428		
4,200.0	4,195.8	4,047.5	3,980.0	9.1	11.8	-147.94	13.7	401.1	513.5	495.6	17.90	28.688		
4,300.0	4,295.0	4,133.2	4,057.6	9.4	12.5	-148.11	13.7	437.6	564.9	546.6	18.32	30.832		
4,400.0	4,394.3	4,219.0	4,135.2	9.6	13.2	-148.24	13.7	474.0	616.4	597.7	18.76	32.865		
4,500.0	4,493.5	4,304.7	4,212.8	9.8	13.8	-148.36	13.7	510.5	667.9	648.7	19.20	34.793		
4,600.0	4,592.8	4,390.4	4,290.4	10.1	14.5	-148.46	13.7	546.9	719.4	699.7	19.64	36.621		
4,700.0	4,692.0	4,476.1	4,368.0	10.3	15.3	-148.55	13.7	583.3	770.8	750.7	20.10	38.356		
4,800.0	4,791.3	4,561.9	4,445.6	10.6	16.0	-148.63	13.7	619.8	822.3	801.8	20.56	40.003		
4,900.0	4,890.5	4,647.6	4,523.2	10.9	16.7	-148.69	13.7	656.2	873.8	852.8	21.02	41.567		

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 4-6H
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 4-6H	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	4,989.8	4,733.3	4,600.8	11.1	17.4	-148.76	13.7	692.7	925.3	903.8	21.49	43.053		
5,100.0	5,089.0	4,819.1	4,678.4	11.4	18.1	-148.81	13.7	729.1	976.7	954.8	21.97	44.465		
5,200.0	5,188.3	4,904.8	4,766.0	11.7	18.9	-148.86	13.7	765.5	1,028.2	1,005.8	22.45	45.808		
5,300.0	5,287.6	4,990.5	4,833.6	11.9	19.6	-148.90	13.7	802.0	1,079.7	1,056.8	22.93	47.086		
5,400.0	5,386.8	5,076.2	4,911.2	12.2	20.4	-148.94	13.7	838.4	1,131.2	1,107.8	23.42	48.302		
5,500.0	5,486.1	5,162.0	4,988.8	12.5	21.1	-148.98	13.7	874.9	1,182.7	1,158.8	23.91	49.461		
5,591.4	5,576.8	5,240.4	5,059.7	12.7	21.8	-149.01	13.7	908.2	1,229.7	1,205.4	24.36	50.473		
5,600.0	5,585.3	5,247.7	5,066.4	12.8	21.9	-153.94	13.7	911.3	1,234.1	1,209.7	24.43	50.516		
5,650.0	5,635.1	5,290.7	5,105.3	12.9	22.3	166.58	13.7	929.6	1,259.5	1,234.7	24.84	50.699		
5,700.0	5,684.8	5,333.8	5,144.3	13.0	22.6	128.33	13.7	947.9	1,284.3	1,259.0	25.28	50.806		
5,750.0	5,734.3	5,376.8	5,183.2	13.1	23.0	107.71	13.7	966.2	1,308.3	1,282.6	25.71	50.883		
5,800.0	5,783.3	5,419.4	5,221.8	13.2	23.4	96.77	13.7	984.3	1,331.7	1,305.5	26.13	50.964		
5,850.0	5,831.6	5,461.5	5,259.8	13.3	23.8	90.14	13.7	1,002.2	1,354.2	1,327.7	26.52	51.072		
5,900.0	5,878.9	5,502.8	5,297.2	13.4	24.1	85.68	13.7	1,019.7	1,375.9	1,349.1	26.86	51.223		
5,950.0	5,925.0	5,543.1	5,333.7	13.4	24.5	82.47	13.7	1,036.9	1,396.9	1,369.7	27.17	51.419		
6,000.0	5,969.7	5,582.3	5,369.2	13.5	24.8	80.06	13.7	1,053.5	1,417.1	1,389.7	27.43	51.660		
6,050.0	6,012.7	5,620.1	5,403.5	13.5	25.2	78.18	13.7	1,069.6	1,436.6	1,409.0	27.66	51.940		
6,100.0	6,053.9	5,656.4	5,436.3	13.6	25.5	76.67	13.7	1,085.1	1,455.4	1,427.6	27.86	52.248		
6,150.0	6,093.1	5,691.0	5,467.6	13.7	25.8	75.45	13.7	1,099.8	1,473.7	1,445.6	28.03	52.571		
6,200.0	6,130.0	5,723.7	5,497.3	13.7	26.1	74.42	13.7	1,113.7	1,491.3	1,463.1	28.19	52.896		
6,250.0	6,164.5	5,754.4	5,525.0	13.8	26.4	73.53	13.7	1,126.7	1,508.5	1,480.1	28.35	53.208		
6,300.0	6,196.4	5,782.9	5,550.8	14.0	26.6	72.74	13.7	1,138.8	1,525.2	1,496.7	28.51	53.495		
6,350.0	6,225.6	5,809.1	5,574.5	14.2	26.9	72.00	13.7	1,150.0	1,541.6	1,512.9	28.68	53.745		
6,396.6	6,250.2	5,831.3	5,594.6	14.4	27.1	71.35	13.7	1,159.4	1,556.6	1,527.7	28.86	53.938		
6,400.0	6,251.8	5,832.8	5,596.0	14.4	27.1	71.40	13.7	1,160.0	1,557.7	1,528.8	28.88	53.926		
6,500.0	6,301.8	5,878.1	5,637.0	15.1	27.5	72.94	13.7	1,179.3	1,591.8	1,562.1	29.73	53.542		
6,546.6	6,325.2	5,882.8	5,641.2	15.5	27.5	73.10	13.7	1,181.3	1,609.3	1,579.2	30.12	53.424		
6,550.0	6,326.8	5,882.8	5,641.2	15.5	27.5	72.96	13.7	1,181.3	1,610.6	1,580.5	30.14	53.435		
6,600.0	6,349.7	5,900.0	5,656.7	16.0	27.7	71.56	13.7	1,188.8	1,629.9	1,599.4	30.46	53.502		
6,650.0	6,368.5	5,900.0	5,656.7	16.5	27.7	69.60	13.7	1,188.8	1,649.1	1,618.4	30.69	53.733		
6,700.0	6,383.3	5,900.0	5,656.7	17.0	27.7	67.67	13.7	1,188.8	1,668.2	1,637.3	30.88	54.017		
6,750.0	6,393.8	5,900.0	5,656.7	17.6	27.7	65.80	13.7	1,188.8	1,687.0	1,656.0	31.05	54.324		
6,789.6	6,399.1	5,900.0	5,656.7	18.1	27.7	64.37	13.7	1,188.8	1,701.7	1,670.5	31.19	54.556		
6,800.0	6,400.1	5,900.0	5,656.7	18.2	27.7	64.37	13.7	1,188.8	1,705.5	1,674.2	31.31	54.476		
6,900.0	6,410.0	5,900.0	5,656.7	19.5	27.7	64.37	13.7	1,188.8	1,745.2	1,712.7	32.48	53.724		
7,000.0	6,420.0	5,900.0	5,656.7	20.9	27.7	64.37	13.7	1,188.8	1,789.6	1,755.8	33.75	53.022		
7,100.0	6,429.9	5,900.0	5,656.7	22.4	27.7	64.37	13.7	1,188.8	1,838.3	1,803.2	35.09	52.386		
7,200.0	6,439.8	5,919.5	5,674.0	23.9	27.9	65.07	13.7	1,197.7	1,890.8	1,854.1	36.67	51.557		
7,300.0	6,449.8	5,922.2	5,676.4	25.5	27.9	65.17	13.7	1,199.0	1,947.2	1,909.0	38.16	51.032		
7,400.0	6,459.7	5,924.8	5,678.7	27.1	27.9	65.27	13.7	1,200.3	2,007.0	1,967.3	39.68	50.577		
7,500.0	6,469.6	5,927.5	5,681.1	28.8	28.0	65.36	13.7	1,201.5	2,069.9	2,028.7	41.24	50.187		
7,600.0	6,479.6	5,930.1	5,683.4	30.5	28.0	65.46	13.7	1,202.8	2,135.6	2,092.8	42.83	49.857		
7,700.0	6,489.5	5,950.0	5,700.6	32.2	28.2	66.17	13.7	1,212.7	2,204.1	2,159.5	44.64	49.374		
7,800.0	6,499.4	5,950.0	5,700.6	33.9	28.2	66.17	13.7	1,212.7	2,274.7	2,228.4	46.26	49.175		
7,900.0	6,509.4	5,950.0	5,700.6	35.7	28.2	66.17	13.7	1,212.7	2,347.4	2,299.5	47.89	49.016		
8,000.0	6,519.3	8,459.2	6,459.6	37.5	54.0	88.78	1,669.8	2,130.4	2,371.9	2,299.1	72.83	32.567		
8,100.0	6,529.2	8,559.1	6,469.5	39.3	54.8	88.78	1,769.1	2,134.9	2,376.4	2,300.1	76.25	31.165		
8,200.0	6,539.2	8,659.0	6,479.4	41.1	55.8	88.79	1,868.4	2,139.3	2,380.9	2,301.2	79.71	29.869		
8,300.0	6,549.1	8,758.9	6,489.3	42.9	56.8	88.79	1,967.7	2,143.8	2,385.4	2,302.2	83.20	28.671		
8,400.0	6,559.0	8,858.8	6,499.3	44.7	57.8	88.79	2,067.0	2,148.3	2,389.9	2,303.2	86.72	27.560		
8,500.0	6,569.0	8,958.7	6,509.2	46.5	58.9	88.79	2,166.3	2,152.8	2,394.4	2,304.1	90.26	26.528		
8,600.0	6,578.9	9,058.6	6,519.1	48.4	60.1	88.80	2,265.6	2,157.3	2,398.9	2,305.1	93.82	25.569		

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 4-6H
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 4-6H	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		
8,700.0	6,588.8	9,158.5	6,529.0	50.2	61.2	88.80	2,364.9	2,161.8	2,403.4	2,306.0	97.40	24.674		
8,800.0	6,598.8	9,258.4	6,539.0	52.1	62.5	88.80	2,464.2	2,166.3	2,407.9	2,306.9	101.01	23.839		
8,900.0	6,608.7	9,358.3	6,548.9	53.9	63.7	88.80	2,563.5	2,170.8	2,412.4	2,307.8	104.62	23.058		
9,000.0	6,618.6	9,458.2	6,558.8	55.8	65.0	88.81	2,662.8	2,175.3	2,416.9	2,308.6	108.25	22.326		
9,100.0	6,628.5	9,558.1	6,568.7	57.6	66.4	88.81	2,762.1	2,179.8	2,421.4	2,309.5	111.90	21.639		
9,200.0	6,638.5	9,658.0	6,578.6	59.5	67.8	88.81	2,861.4	2,184.3	2,425.9	2,310.3	115.55	20.994		
9,300.0	6,648.4	9,757.9	6,588.6	61.4	69.2	88.81	2,960.7	2,188.8	2,430.4	2,311.2	119.22	20.386		
9,400.0	6,658.3	9,857.8	6,598.5	63.2	70.6	88.82	3,060.0	2,193.3	2,434.9	2,312.0	122.89	19.813		
9,500.0	6,668.3	9,957.7	6,608.4	65.1	72.1	88.82	3,159.3	2,197.8	2,439.4	2,312.8	126.58	19.272		
9,600.0	6,678.2	10,057.6	6,618.3	67.0	73.6	88.82	3,258.6	2,202.3	2,443.9	2,313.6	130.27	18.760		
9,700.0	6,688.1	10,157.5	6,628.3	68.9	75.1	88.82	3,357.9	2,206.8	2,448.4	2,314.4	133.97	18.276		
9,800.0	6,698.1	10,257.4	6,638.2	70.8	76.6	88.83	3,457.2	2,211.3	2,452.9	2,315.2	137.67	17.817		
9,900.0	6,708.0	10,357.3	6,648.1	72.6	78.2	88.83	3,556.5	2,215.8	2,457.4	2,316.0	141.39	17.381		
10,000.0	6,717.9	10,457.2	6,658.0	74.5	79.8	88.83	3,655.8	2,220.3	2,461.9	2,316.8	145.10	16.966		
10,100.0	6,727.9	10,557.1	6,667.9	76.4	81.4	88.83	3,755.1	2,224.8	2,466.4	2,317.5	148.83	16.572		
10,200.0	6,737.8	10,657.0	6,677.9	78.3	83.0	88.84	3,854.4	2,229.3	2,470.9	2,318.3	152.55	16.197		
10,300.0	6,747.7	10,756.9	6,687.8	80.2	84.6	88.84	3,953.7	2,233.8	2,475.4	2,319.1	156.29	15.839		
10,400.0	6,757.7	10,856.8	6,697.7	82.1	86.3	88.84	4,053.0	2,238.3	2,479.9	2,319.8	160.02	15.497		
10,500.0	6,767.6	10,956.7	6,707.6	84.0	87.9	88.84	4,152.4	2,242.8	2,484.4	2,320.6	163.76	15.170		
10,600.0	6,777.5	11,056.6	6,717.6	85.9	89.6	88.85	4,251.7	2,247.3	2,488.9	2,321.3	167.51	14.858		
10,700.0	6,787.5	11,156.5	6,727.5	87.8	91.3	88.85	4,351.0	2,251.8	2,493.4	2,322.1	171.26	14.559		
10,800.0	6,797.4	11,256.4	6,737.4	89.7	93.0	88.85	4,450.3	2,256.3	2,497.9	2,322.8	175.01	14.273		
10,900.0	6,807.3	11,356.3	6,747.3	91.6	94.7	88.85	4,549.6	2,260.8	2,502.4	2,323.6	178.76	13.998		
11,000.0	6,817.3	11,456.2	6,757.2	93.5	96.4	88.85	4,648.9	2,265.3	2,506.9	2,324.3	182.52	13.735		
11,100.0	6,827.2	11,556.1	6,767.2	95.4	98.1	88.86	4,748.2	2,269.8	2,511.4	2,325.1	186.28	13.482		
11,200.0	6,837.1	11,656.0	6,777.1	97.3	99.8	88.86	4,847.5	2,274.3	2,515.8	2,325.8	190.04	13.239		
11,300.0	6,847.1	11,755.9	6,787.0	99.2	101.6	88.86	4,946.8	2,278.8	2,520.3	2,326.5	193.80	13.005		
11,400.0	6,857.0	11,855.8	6,796.9	101.1	103.3	88.86	5,046.1	2,283.3	2,524.8	2,327.3	197.57	12.780		
11,500.0	6,866.9	11,955.7	6,806.8	103.0	105.0	88.87	5,145.4	2,287.8	2,529.3	2,328.0	201.34	12.563		
11,600.0	6,876.8	12,055.6	6,816.8	104.9	106.8	88.87	5,244.7	2,292.3	2,533.8	2,328.7	205.11	12.354		
11,700.0	6,886.8	12,155.5	6,826.7	106.8	108.6	88.87	5,344.0	2,296.8	2,538.3	2,329.5	208.88	12.152		
11,800.0	6,896.7	12,255.4	6,836.6	108.7	110.3	88.87	5,443.3	2,301.3	2,542.8	2,330.2	212.65	11.958		
11,900.0	6,906.6	12,355.3	6,846.5	110.6	112.1	88.87	5,542.6	2,305.8	2,547.3	2,330.9	216.43	11.770		
12,000.0	6,916.6	12,455.2	6,856.5	112.5	113.9	88.88	5,641.9	2,310.3	2,551.8	2,331.6	220.21	11.588		
12,100.0	6,926.5	12,555.1	6,866.4	114.4	115.7	88.88	5,741.2	2,314.8	2,556.3	2,332.4	223.99	11.413		
12,200.0	6,936.4	12,655.0	6,876.3	116.3	117.4	88.88	5,840.5	2,319.3	2,560.8	2,333.1	227.77	11.243		
12,246.1	6,941.0	12,701.0	6,880.9	117.0	118.3	88.88	5,886.3	2,321.3	2,562.9	2,333.6	229.34	11.175		

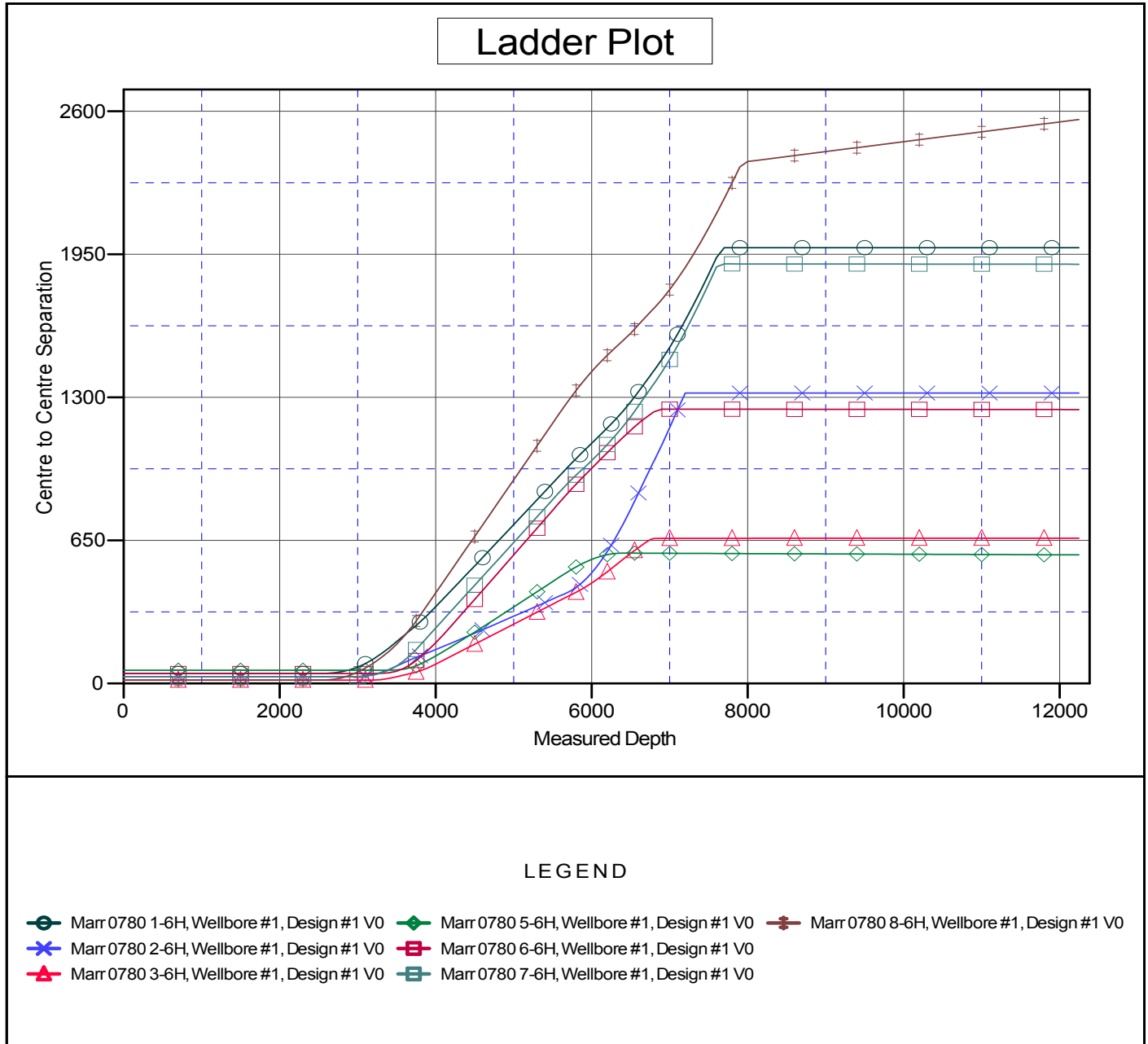
SandRidge Energy

Anticollision Report

Company:	SandRidge Energy	Local Co-ordinate Reference:	Well Marr 0780 4-6H
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 4-6H	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 4-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: -0.59°



SandRidge Energy

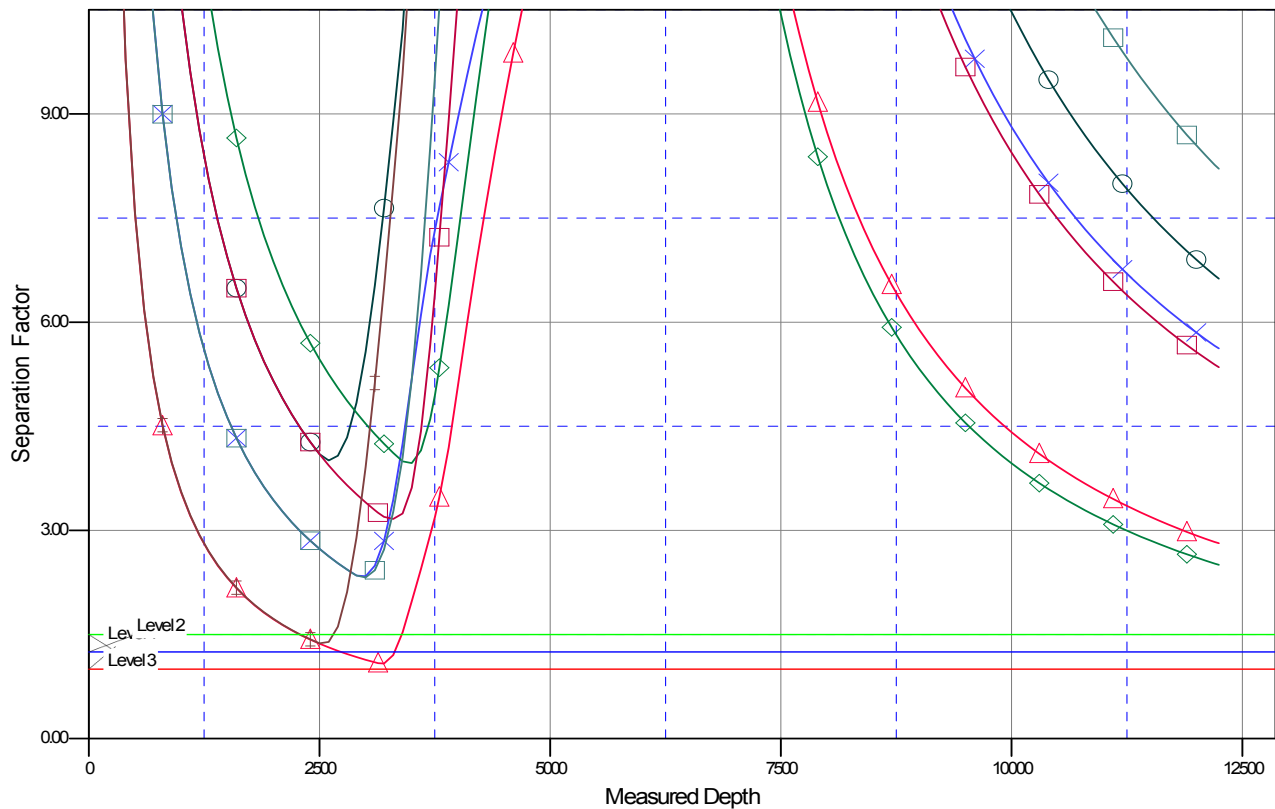
Anticollision Report

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Reference Well:	Marr 0780 4-6H	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	Wellbore #1	Database:	EDMProd
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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 4-6H
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 2-6H, Wellbore #1, Design #1 V0
—⊞— Marr 0780 6-6H, Wellbore #1, Design #1 V0
- △— Marr 0780 3-6H, Wellbore #1, Design #1 V0
—⊞— Marr 0780 7-6H, Wellbore #1, Design #1 V0