

## Survey Report

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Anita 3420 1-12H/ Lariat 19
<b>Project:</b>	Comanche County (KS27S)	<b>TVD Reference:</b>	WELL @ 1813.0usft (Original Well Elev)
<b>Site:</b>	Sec 12-T34S-R20W	<b>MD Reference:</b>	WELL @ 1813.0usft (Original Well Elev)
<b>Well:</b>	Anita 3420 1-12H/ Lariat 19	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,573.0	0.50	324.20	1,573.0	9.9	-1.0	-9.9	0.07	0.00	-8.70
2,050.0	1.10	336.70	2,049.9	15.8	-4.0	-15.8	0.13	0.13	2.62
2,526.0	1.00	323.70	2,525.8	23.4	-8.3	-23.3	0.05	-0.02	-2.73
3,003.0	0.70	346.70	3,002.8	29.6	-11.4	-29.5	0.09	-0.06	4.82
3,479.0	0.40	319.30	3,478.8	33.6	-13.1	-33.6	0.08	-0.06	-5.76
3,861.0	0.30	251.90	3,860.8	34.3	-15.0	-34.3	0.10	-0.03	-17.64
3,956.0	0.40	247.80	3,955.8	34.1	-15.5	-34.1	0.11	0.11	-4.32
4,051.0	0.20	197.10	4,050.8	33.9	-15.9	-33.8	0.33	-0.21	-53.37
4,146.0	0.20	216.40	4,145.8	33.6	-16.0	-33.5	0.07	0.00	20.32
4,241.0	0.20	172.20	4,240.8	33.3	-16.1	-33.2	0.16	0.00	-46.53
4,273.0	0.40	198.30	4,272.8	33.1	-16.1	-33.1	0.74	0.63	81.56
4,305.0	1.20	168.70	4,304.7	32.7	-16.1	-32.6	2.73	2.50	-92.50
4,337.0	3.00	163.30	4,336.7	31.5	-15.8	-31.5	5.65	5.63	-16.88
4,369.0	5.00	162.50	4,368.6	29.4	-15.1	-29.4	6.25	6.25	-2.50
4,401.0	6.90	163.90	4,400.5	26.2	-14.2	-26.2	5.95	5.94	4.38
4,432.0	9.20	160.90	4,431.2	22.1	-12.8	-22.1	7.54	7.42	-9.68
4,464.0	11.70	162.90	4,462.6	16.6	-11.0	-16.6	7.89	7.81	6.25
4,496.0	13.80	165.20	4,493.8	9.8	-9.1	-9.8	6.75	6.56	7.19
4,528.0	15.80	167.00	4,524.8	1.9	-7.2	-1.8	6.41	6.25	5.63
4,560.0	17.80	166.90	4,555.4	-7.2	-5.1	7.2	6.25	6.25	-0.31
4,591.0	18.70	168.90	4,584.9	-16.6	-3.0	16.7	3.54	2.90	6.45
4,623.0	19.70	170.30	4,615.1	-27.0	-1.1	27.0	3.44	3.13	4.38
4,655.0	21.80	169.90	4,645.0	-38.2	0.8	38.2	6.58	6.56	-1.25
4,687.0	24.20	170.80	4,674.4	-50.5	2.9	50.5	7.58	7.50	2.81
4,718.0	26.60	171.20	4,702.4	-63.6	5.0	63.6	7.76	7.74	1.29
4,750.0	28.50	173.40	4,730.8	-78.3	6.9	78.3	6.73	5.94	6.88
4,782.0	30.30	174.80	4,758.7	-93.9	8.6	93.9	6.02	5.63	4.38
4,813.0	32.50	176.10	4,785.2	-110.0	9.8	110.0	7.43	7.10	4.19
4,845.0	34.60	176.30	4,811.8	-127.7	11.0	127.6	6.57	6.56	0.63
4,877.0	36.00	175.40	4,837.9	-146.1	12.3	146.1	4.67	4.38	-2.81
4,909.0	38.40	175.40	4,863.4	-165.4	13.9	165.4	7.50	7.50	0.00
4,941.0	40.60	176.50	4,888.1	-185.7	15.3	185.7	7.21	6.88	3.44
4,972.0	43.30	177.80	4,911.2	-206.4	16.3	206.3	9.15	8.71	4.19
5,004.0	46.60	178.20	4,933.8	-229.0	17.1	228.9	10.35	10.31	1.25
5,036.0	48.90	178.60	4,955.3	-252.6	17.8	252.6	7.25	7.19	1.25
5,068.0	50.10	179.30	4,976.1	-277.0	18.2	276.9	4.10	3.75	2.19
5,099.0	50.40	179.30	4,995.9	-300.8	18.5	300.8	0.97	0.97	0.00
5,131.0	50.80	178.60	5,016.2	-325.5	19.0	325.5	2.10	1.25	-2.19
5,163.0	50.90	179.00	5,036.5	-350.3	19.5	350.3	1.02	0.31	1.25
5,194.0	50.90	178.80	5,056.0	-374.4	20.0	374.3	0.50	0.00	-0.65
5,226.0	50.90	178.90	5,076.2	-399.2	20.5	399.2	0.24	0.00	0.31
5,258.0	51.20	178.50	5,096.3	-424.1	21.0	424.1	1.35	0.94	-1.25
5,290.0	53.30	179.70	5,115.9	-449.4	21.4	449.4	7.20	6.56	3.75
5,322.0	56.20	181.10	5,134.4	-475.5	21.2	475.5	9.74	9.06	4.38

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<b>Site:</b>	Sec 12-T34S-R20W	<b>MD Reference:</b>	WELL @ 1813.0usft (Original Well Elev)
<b>Well:</b>	Anita 3420 1-12H/ Lariat 19	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,353.0	59.20	181.70	5,150.9	-501.7	20.6	501.7	9.81	9.68	1.94
5,385.0	61.40	181.40	5,166.8	-529.5	19.8	529.5	6.92	6.88	-0.94
5,417.0	65.10	181.60	5,181.2	-558.1	19.1	558.0	11.58	11.56	0.63
5,449.0	69.20	181.50	5,193.6	-587.5	18.3	587.5	12.82	12.81	-0.31
5,480.0	73.20	181.60	5,203.6	-616.9	17.5	616.8	12.91	12.90	0.32
5,504.0	75.90	180.70	5,210.0	-640.0	17.0	640.0	11.82	11.25	-3.75
5,535.0	77.50	180.50	5,217.1	-670.2	16.7	670.1	5.20	5.16	-0.65
5,566.0	79.80	181.40	5,223.2	-700.5	16.2	700.5	7.95	7.42	2.90
5,597.0	82.70	181.40	5,227.9	-731.2	15.5	731.1	9.35	9.35	0.00
5,628.0	84.80	181.40	5,231.3	-762.0	14.7	761.9	6.77	6.77	0.00
5,658.0	86.20	180.90	5,233.7	-791.9	14.1	791.8	4.95	4.67	-1.67
5,689.0	85.80	180.70	5,235.8	-822.8	13.7	822.8	1.44	-1.29	-0.65
5,720.0	86.90	180.90	5,237.8	-853.7	13.3	853.7	3.61	3.55	0.65
5,751.0	88.40	181.00	5,239.1	-884.7	12.7	884.7	4.85	4.84	0.32
5,781.0	89.20	181.30	5,239.7	-914.7	12.1	914.7	2.85	2.67	1.00
5,812.0	88.60	181.40	5,240.3	-945.7	11.4	945.6	1.96	-1.94	0.32
5,843.0	88.30	181.40	5,241.1	-976.6	10.7	976.6	0.97	-0.97	0.00
5,873.0	89.60	181.30	5,241.7	-1,006.6	9.9	1,006.6	4.35	4.33	-0.33
5,904.0	92.10	182.10	5,241.2	-1,037.6	9.0	1,037.6	8.47	8.06	2.58
5,935.0	92.70	182.00	5,239.9	-1,068.6	7.9	1,068.5	1.96	1.94	-0.32
5,997.0	91.30	181.10	5,237.8	-1,130.5	6.2	1,130.5	2.68	-2.26	-1.45
6,027.0	91.00	180.90	5,237.1	-1,160.5	5.7	1,160.5	1.20	-1.00	-0.67
6,089.0	90.10	180.50	5,236.6	-1,222.5	5.0	1,222.5	1.59	-1.45	-0.65
6,120.0	89.70	180.20	5,236.6	-1,253.5	4.8	1,253.5	1.61	-1.29	-0.97
6,212.0	90.20	180.30	5,236.7	-1,345.5	4.4	1,345.5	0.55	0.54	0.11
6,303.0	91.30	180.30	5,235.5	-1,436.5	3.9	1,436.5	1.21	1.21	0.00
6,396.0	91.30	180.60	5,233.4	-1,529.4	3.2	1,529.4	0.32	0.00	0.32
6,487.0	91.20	180.60	5,231.4	-1,620.4	2.2	1,620.4	0.11	-0.11	0.00
6,579.0	90.20	180.70	5,230.3	-1,712.4	1.2	1,712.4	1.09	-1.09	0.11
6,670.0	89.60	180.30	5,230.4	-1,803.4	0.4	1,803.4	0.79	-0.66	-0.44
6,762.0	90.30	180.30	5,230.5	-1,895.4	-0.1	1,895.4	0.76	0.76	0.00
6,854.0	92.40	179.90	5,228.4	-1,987.4	-0.3	1,987.4	2.32	2.28	-0.43
6,946.0	92.70	179.90	5,224.3	-2,079.3	-0.1	2,079.3	0.33	0.33	0.00
7,039.0	92.90	179.80	5,219.7	-2,172.2	0.1	2,172.2	0.24	0.22	-0.11
7,069.0	93.10	179.60	5,218.1	-2,202.1	0.3	2,202.1	0.94	0.67	-0.67
7,100.0	92.80	179.90	5,216.5	-2,233.1	0.4	2,233.1	1.37	-0.97	0.97
7,131.0	92.30	180.10	5,215.2	-2,264.1	0.4	2,264.0	1.74	-1.61	0.65
7,155.0	92.70	180.50	5,214.1	-2,288.0	0.3	2,288.0	2.36	1.67	1.67
7,187.0	92.80	180.50	5,212.6	-2,320.0	0.0	2,320.0	0.31	0.31	0.00
7,219.0	91.10	181.90	5,211.5	-2,352.0	-0.6	2,352.0	6.88	-5.31	4.38
7,251.0	90.40	182.10	5,211.1	-2,383.9	-1.8	2,383.9	2.28	-2.19	0.63
7,283.0	89.70	182.10	5,211.1	-2,415.9	-2.9	2,415.9	2.19	-2.19	0.00
7,315.0	90.10	182.10	5,211.1	-2,447.9	-4.1	2,447.9	1.25	1.25	0.00

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<b>Site:</b>	Sec 12-T34S-R20W	<b>MD Reference:</b>	WELL @ 1813.0usft (Original Well Elev)
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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

### Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,347.0	90.30	182.30	5,211.0	-2,479.9	-5.3	2,479.9	0.88	0.63	0.63
7,379.0	88.20	180.70	5,211.4	-2,511.9	-6.2	2,511.9	8.25	-6.56	-5.00
7,411.0	87.60	180.10	5,212.6	-2,543.8	-6.4	2,543.8	2.65	-1.88	-1.88
7,443.0	87.70	180.40	5,213.9	-2,575.8	-6.5	2,575.8	0.99	0.31	0.94
7,475.0	88.30	180.40	5,215.0	-2,607.8	-6.8	2,607.8	1.88	1.88	0.00
7,538.0	89.40	181.50	5,216.3	-2,670.8	-7.8	2,670.8	2.47	1.75	1.75
7,602.0	88.40	180.50	5,217.5	-2,734.7	-8.9	2,734.8	2.21	-1.56	-1.56
7,634.0	88.40	180.00	5,218.4	-2,766.7	-9.1	2,766.7	1.56	0.00	-1.56
7,698.0	88.40	179.70	5,220.2	-2,830.7	-8.9	2,830.7	0.47	0.00	-0.47
7,730.0	88.20	179.40	5,221.1	-2,862.7	-8.6	2,862.7	1.13	-0.63	-0.94
7,794.0	88.40	179.60	5,223.0	-2,926.7	-8.1	2,926.7	0.44	0.31	0.31
7,825.0	88.30	179.60	5,223.9	-2,957.6	-7.9	2,957.7	0.32	-0.32	0.00
7,889.0	86.50	179.60	5,226.8	-3,021.6	-7.4	3,021.6	2.81	-2.81	0.00
7,921.0	86.80	179.50	5,228.7	-3,053.5	-7.2	3,053.5	0.99	0.94	-0.31
7,953.0	88.30	181.00	5,230.1	-3,085.5	-7.3	3,085.5	6.63	4.69	4.69
8,017.0	88.70	180.70	5,231.7	-3,149.5	-8.3	3,149.5	0.78	0.63	-0.47
8,081.0	88.80	180.70	5,233.1	-3,213.4	-9.0	3,213.4	0.16	0.16	0.00
8,113.0	89.10	180.90	5,233.7	-3,245.4	-9.5	3,245.4	1.13	0.94	0.63
8,176.0	88.80	180.60	5,234.9	-3,308.4	-10.3	3,308.4	0.67	-0.48	-0.48
8,208.0	89.40	180.50	5,235.4	-3,340.4	-10.6	3,340.4	1.90	1.88	-0.31
8,272.0	89.50	180.00	5,236.0	-3,404.4	-10.9	3,404.4	0.80	0.16	-0.78
8,304.0	89.50	180.00	5,236.3	-3,436.4	-10.9	3,436.4	0.00	0.00	0.00
8,400.0	88.90	180.10	5,237.6	-3,532.4	-11.0	3,532.4	0.63	-0.63	0.10
8,495.0	87.90	179.90	5,240.3	-3,627.4	-11.0	3,627.4	1.07	-1.05	-0.21
8,591.0	87.00	179.40	5,244.5	-3,723.3	-10.4	3,723.3	1.07	-0.94	-0.52
8,655.0	87.80	179.30	5,247.4	-3,787.2	-9.7	3,787.2	1.26	1.25	-0.16
8,687.0	89.60	179.30	5,248.2	-3,819.2	-9.3	3,819.2	5.63	5.63	0.00
8,750.0	92.30	179.60	5,247.1	-3,882.2	-8.7	3,882.2	4.31	4.29	0.48
8,782.0	91.30	179.20	5,246.1	-3,914.1	-8.3	3,914.1	3.37	-3.13	-1.25
8,846.0	90.70	178.50	5,245.0	-3,978.1	-7.1	3,978.1	1.44	-0.94	-1.09
8,878.0	91.30	178.70	5,244.4	-4,010.1	-6.3	4,010.1	1.98	1.88	0.63
8,942.0	90.90	178.30	5,243.2	-4,074.1	-4.6	4,074.1	0.88	-0.63	-0.63
8,974.0	91.20	178.50	5,242.6	-4,106.0	-3.7	4,106.0	1.13	0.94	0.63
9,038.0	89.30	178.50	5,242.4	-4,170.0	-2.0	4,170.0	2.97	-2.97	0.00
9,101.0	89.20	179.00	5,243.2	-4,233.0	-0.7	4,233.0	0.81	-0.16	0.79
9,133.0	90.50	179.10	5,243.3	-4,265.0	-0.1	4,265.0	4.07	4.06	0.31
9,165.0	90.40	178.90	5,243.0	-4,297.0	0.4	4,297.0	0.70	-0.31	-0.63
9,261.0	93.10	180.20	5,240.1	-4,392.9	1.2	4,392.9	3.12	2.81	1.35
9,325.0	89.40	179.30	5,238.7	-4,456.9	1.5	4,456.9	5.95	-5.78	-1.41
9,357.0	89.40	179.10	5,239.0	-4,488.9	1.9	4,488.9	0.62	0.00	-0.63
9,421.0	89.30	178.50	5,239.7	-4,552.9	3.3	4,552.9	0.95	-0.16	-0.94
9,452.0	89.90	177.90	5,240.0	-4,583.9	4.2	4,583.8	2.74	1.94	-1.94
9,523.0	88.90	177.70	5,240.7	-4,654.8	6.9	4,654.8	1.44	-1.41	-0.28

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Last Archer MWD Survey</b>									
9,576.0	88.90	177.70	5,241.7	-4,707.8	9.1	4,707.7	0.00	0.00	0.00
<b>Projection to TD - PBHL Anita 1-12H</b>									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
250.0	250.0	1.3	0.0	First Wireline Survey	
978.0	978.0	5.4	0.0	Last Wireline Survey	
1,111.0	1,111.0	6.3	0.1	First Archer MWD Survey	
9,523.0	5,240.7	-4,654.8	6.9	Last Archer MWD Survey	
9,576.0	5,241.7	-4,707.8	9.1	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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