

# **Sandridge Energy, INC.(mid-con.)**

**Ford County (KS27S)**

**Sec 26-T29S-R25W**

**Coach 2925 1-26H/ Lariat 3**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**22 January, 2013**

# Archer

## Survey Report

<b>Company:</b> Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b> Well Coach 2925 1-26H/ Lariat 3
<b>Project:</b> Ford County (KS27S)	<b>TVD Reference:</b> WELL @ 2606.0usft (Original Well Elev)
<b>Site:</b> Sec 26-T29S-R25W	<b>MD Reference:</b> WELL @ 2606.0usft (Original Well Elev)
<b>Well:</b> Coach 2925 1-26H/ Lariat 3	<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

<b>Project</b> Ford County (KS27S)	
<b>Map System:</b> US State Plane 1927 (Exact solution)	<b>System Datum:</b> Mean Sea Level
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)	
<b>Map Zone:</b> Kansas South 1502	

<b>Site</b> Sec 26-T29S-R25W		
<b>Site Position:</b>	<b>Northing:</b> 302,772.00 usft	<b>Latitude:</b> 37° 29' 17.316 N
<b>From:</b> Map	<b>Easting:</b> 1,554,965.00 usft	<b>Longitude:</b> 100° 2' 1.934 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> -0.94 °

<b>Well</b> Coach 2925 1-26H/ Lariat 3			
<b>Well Position</b>	<b>+N/-S</b> 0.0 usft	<b>Northing:</b> 302,799.94 usft	<b>Latitude:</b> 37° 29' 18.369 N
	<b>+E/-W</b> 0.0 usft	<b>Easting:</b> 1,559,764.93 usft	<b>Longitude:</b> 100° 1' 2.393 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 2,588.0 usft

<b>Wellbore</b> Wellbore #1					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2012/12/19	5.77	65.31	51,863

<b>Design</b> Wellbore #1					
<b>Audit Notes:</b>					
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.0			
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	1.18	

<b>Survey Program</b>		<b>Date</b> 2013/01/22		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
1,351.0	9,789.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard

<b>Survey</b>										
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,351.0	2.00	161.30	1,350.7	-22.3	7.6	-22.2	0.15	0.15	0.00	
<b>First Archer MWD Survey</b>										
1,820.0	1.50	173.60	1,819.5	-36.2	10.9	-36.0	0.13	-0.11	2.62	
2,287.0	0.50	137.10	2,286.4	-43.8	12.9	-43.5	0.24	-0.21	-7.82	
2,757.0	1.00	125.10	2,756.4	-47.6	17.7	-47.2	0.11	0.11	-2.55	
3,228.0	1.00	127.10	3,227.3	-52.5	24.3	-51.9	0.01	0.00	0.42	
3,697.0	1.00	120.10	3,696.2	-57.0	31.1	-56.3	0.03	0.00	-1.49	
4,161.0	0.90	142.60	4,160.2	-61.9	36.8	-61.1	0.08	-0.02	4.85	
4,314.0	0.70	160.00	4,313.2	-63.7	37.9	-62.9	0.20	-0.13	11.37	
4,374.0	0.30	10.00	4,373.2	-63.9	38.1	-63.1	1.62	-0.67	-250.00	

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<b>Site:</b>	Sec 26-T29S-R25W	<b>MD Reference:</b>	WELL @ 2606.0usft (Original Well Elev)
<b>Well:</b>	Coach 2925 1-26H/ Lariat 3	<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)	
4,406.0	1.80	345.40	4,405.2	-63.4	37.9	-62.6	4.79	4.69	-76.88	
4,438.0	3.90	339.30	4,437.1	-61.9	37.4	-61.1	6.62	6.56	-19.06	
4,469.0	5.80	341.20	4,468.0	-59.4	36.6	-58.6	6.15	6.13	6.13	
4,500.0	7.50	346.40	4,498.8	-55.9	35.6	-55.2	5.81	5.48	16.77	
4,532.0	9.30	348.10	4,530.5	-51.4	34.5	-50.6	5.68	5.63	5.31	
4,564.0	11.10	346.80	4,561.9	-45.8	33.3	-45.1	5.67	5.63	-4.06	
4,595.0	13.00	344.30	4,592.3	-39.6	31.7	-38.9	6.35	6.13	-8.06	
4,627.0	15.60	342.10	4,623.3	-32.0	29.4	-31.4	8.30	8.13	-6.88	
4,658.0	18.10	342.10	4,652.9	-23.5	26.6	-22.9	8.06	8.06	0.00	
4,690.0	20.80	343.80	4,683.1	-13.3	23.5	-12.8	8.62	8.44	5.31	
4,719.0	23.00	345.60	4,710.0	-2.8	20.7	-2.4	7.93	7.59	6.21	
4,751.0	25.80	347.60	4,739.2	10.0	17.6	10.4	9.12	8.75	6.25	
4,783.0	28.10	348.90	4,767.7	24.2	14.7	24.5	7.42	7.19	4.06	
4,814.0	30.00	350.10	4,794.8	39.0	11.9	39.2	6.41	6.13	3.87	
4,844.0	32.00	351.50	4,820.5	54.3	9.5	54.4	7.09	6.67	4.67	
4,874.0	33.80	352.40	4,845.7	70.4	7.2	70.5	6.22	6.00	3.00	
4,905.0	35.80	353.40	4,871.1	88.0	5.0	88.0	6.71	6.45	3.23	
4,936.0	38.40	354.60	4,895.9	106.5	3.1	106.6	8.71	8.39	3.87	
4,967.0	40.00	355.90	4,919.9	126.1	1.4	126.1	5.80	5.16	4.19	
4,998.0	41.40	356.80	4,943.4	146.2	0.2	146.2	4.90	4.52	2.90	
5,029.0	42.20	357.70	4,966.5	166.9	-0.8	166.8	3.23	2.58	2.90	
5,061.0	43.30	358.60	4,990.0	188.6	-1.5	188.5	3.93	3.44	2.81	
5,092.0	44.30	359.20	5,012.4	210.0	-1.9	210.0	3.49	3.23	1.94	
5,124.0	45.50	359.80	5,035.0	232.6	-2.1	232.5	3.98	3.75	1.88	
5,155.0	47.10	0.80	5,056.4	255.0	-2.0	254.9	5.66	5.16	3.23	
5,185.0	49.30	1.10	5,076.4	277.4	-1.7	277.3	7.37	7.33	1.00	
5,217.0	51.10	1.30	5,096.9	302.0	-1.1	301.9	5.65	5.63	0.63	
5,249.0	51.50	1.00	5,116.9	326.9	-0.6	326.9	1.45	1.25	-0.94	
5,280.0	51.30	0.50	5,136.3	351.2	-0.3	351.1	1.42	-0.65	-1.61	
5,311.0	50.80	359.90	5,155.8	375.3	-0.2	375.2	2.21	-1.61	-1.94	
5,342.0	50.00	359.40	5,175.5	399.2	-0.4	399.1	2.86	-2.58	-1.61	
5,374.0	49.40	358.50	5,196.2	423.6	-0.8	423.5	2.85	-1.88	-2.81	
5,405.0	49.50	358.40	5,216.4	447.1	-1.5	447.0	0.41	0.32	-0.32	
5,436.0	52.30	358.50	5,235.9	471.2	-2.1	471.0	9.04	9.03	0.32	
5,468.0	56.00	358.80	5,254.7	497.1	-2.7	496.9	11.59	11.56	0.94	
5,499.0	59.70	359.10	5,271.2	523.3	-3.2	523.1	11.96	11.94	0.97	
5,531.0	63.50	359.70	5,286.4	551.5	-3.5	551.3	11.99	11.88	1.88	
5,562.0	66.60	0.50	5,299.4	579.6	-3.4	579.4	10.27	10.00	2.58	
5,595.0	69.50	1.90	5,311.8	610.2	-2.8	610.0	9.63	8.79	4.24	
5,626.0	72.50	2.40	5,321.9	639.5	-1.7	639.3	9.80	9.68	1.61	
5,658.0	75.40	2.30	5,330.7	670.2	-0.4	670.0	9.07	9.06	-0.31	
5,689.0	78.00	2.40	5,337.8	700.3	0.8	700.2	8.39	8.39	0.32	
5,721.0	80.60	2.70	5,343.8	731.7	2.2	731.6	8.18	8.13	0.94	

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Survey										
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5,752.0	83.90	2.50	5,348.0	762.4	3.6	762.3	10.66	10.65	-0.65	
5,783.0	87.20	2.20	5,350.4	793.3	4.9	793.2	10.69	10.65	-0.97	
5,810.0	88.80	2.30	5,351.3	820.2	5.9	820.2	5.94	5.93	0.37	
5,846.0	89.50	2.50	5,351.9	856.2	7.4	856.2	2.02	1.94	0.56	
5,885.0	90.20	2.20	5,352.0	895.2	9.0	895.2	1.95	1.79	-0.77	
5,916.0	90.50	2.10	5,351.8	926.2	10.2	926.2	1.02	0.97	-0.32	
5,946.0	90.70	1.90	5,351.4	956.1	11.2	956.2	0.94	0.67	-0.67	
5,977.0	90.90	1.90	5,351.0	987.1	12.3	987.2	0.65	0.65	0.00	
6,008.0	91.90	2.10	5,350.3	1,018.1	13.3	1,018.1	3.29	3.23	0.65	
6,038.0	92.60	2.00	5,349.1	1,048.0	14.4	1,048.1	2.36	2.33	-0.33	
6,069.0	92.90	1.50	5,347.6	1,079.0	15.4	1,079.1	1.88	0.97	-1.61	
6,099.0	93.40	1.60	5,345.9	1,108.9	16.2	1,109.0	1.70	1.67	0.33	
6,130.0	92.10	1.30	5,344.5	1,139.9	17.0	1,140.0	4.30	-4.19	-0.97	
6,160.0	92.00	1.10	5,343.4	1,169.9	17.6	1,170.0	0.74	-0.33	-0.67	
6,191.0	90.50	1.00	5,342.7	1,200.9	18.2	1,201.0	4.85	-4.84	-0.32	
6,221.0	90.10	1.10	5,342.6	1,230.8	18.7	1,231.0	1.37	-1.33	0.33	
6,252.0	89.40	1.10	5,342.7	1,261.8	19.3	1,262.0	2.26	-2.26	0.00	
6,282.0	88.80	1.10	5,343.2	1,291.8	19.9	1,292.0	2.00	-2.00	0.00	
6,313.0	89.00	0.80	5,343.8	1,322.8	20.4	1,323.0	1.16	0.65	-0.97	
6,342.0	89.50	1.00	5,344.1	1,351.8	20.8	1,352.0	1.86	1.72	0.69	
6,373.0	89.50	1.30	5,344.4	1,382.8	21.5	1,383.0	0.97	0.00	0.97	
6,403.0	89.50	1.30	5,344.7	1,412.8	22.1	1,413.0	0.00	0.00	0.00	
6,434.0	89.80	0.90	5,344.9	1,443.8	22.7	1,444.0	1.61	0.97	-1.29	
6,464.0	89.80	0.70	5,345.0	1,473.8	23.2	1,474.0	0.67	0.00	-0.67	
6,495.0	90.20	0.70	5,345.0	1,504.8	23.5	1,505.0	1.29	1.29	0.00	
6,525.0	90.30	0.40	5,344.8	1,534.8	23.8	1,534.9	1.05	0.33	-1.00	
6,556.0	90.30	0.30	5,344.7	1,565.8	24.0	1,565.9	0.32	0.00	-0.32	
6,586.0	90.10	359.90	5,344.6	1,595.8	24.1	1,595.9	1.49	-0.67	-1.33	
6,616.0	90.00	359.80	5,344.5	1,625.8	24.0	1,625.9	0.47	-0.33	-0.33	
6,647.0	90.20	359.90	5,344.5	1,656.8	23.9	1,656.9	0.72	0.65	0.32	
6,677.0	90.40	1.30	5,344.3	1,686.8	24.2	1,686.9	4.71	0.67	4.67	
6,707.0	90.50	1.30	5,344.1	1,716.8	24.9	1,716.9	0.33	0.33	0.00	
6,737.0	90.80	1.40	5,343.7	1,746.8	25.6	1,746.9	1.05	1.00	0.33	
6,767.0	91.60	1.30	5,343.1	1,776.7	26.3	1,776.9	2.69	2.67	-0.33	
6,798.0	91.80	0.80	5,342.2	1,807.7	26.9	1,807.9	1.74	0.65	-1.61	
6,828.0	90.70	1.30	5,341.5	1,837.7	27.4	1,837.9	4.03	-3.67	1.67	
6,860.0	90.50	1.50	5,341.2	1,869.7	28.2	1,869.9	0.88	-0.63	0.63	
6,891.0	90.40	1.60	5,341.0	1,900.7	29.1	1,900.9	0.46	-0.32	0.32	
6,923.0	90.40	1.90	5,340.7	1,932.7	30.0	1,932.9	0.94	0.00	0.94	
6,955.0	90.30	2.10	5,340.5	1,964.7	31.1	1,964.9	0.70	-0.31	0.63	
6,986.0	91.00	2.10	5,340.2	1,995.6	32.3	1,995.9	2.26	2.26	0.00	
7,018.0	91.20	1.80	5,339.6	2,027.6	33.4	2,027.9	1.13	0.63	-0.94	
7,050.0	90.10	1.50	5,339.2	2,059.6	34.3	2,059.9	3.56	-3.44	-0.94	

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Survey										
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7,081.0	89.60	1.40	5,339.3	2,090.6	35.1	2,090.9	1.64	-1.61	-0.32	
7,113.0	89.40	1.40	5,339.6	2,122.6	35.9	2,122.9	0.63	-0.63	0.00	
7,144.0	89.40	1.30	5,339.9	2,153.6	36.6	2,153.9	0.32	0.00	-0.32	
7,176.0	89.40	0.80	5,340.2	2,185.6	37.2	2,185.9	1.56	0.00	-1.56	
7,208.0	90.50	0.80	5,340.3	2,217.5	37.6	2,217.9	3.44	3.44	0.00	
7,240.0	90.60	0.30	5,340.0	2,249.5	37.9	2,249.8	1.59	0.31	-1.56	
7,272.0	89.60	1.10	5,339.9	2,281.5	38.3	2,281.8	4.00	-3.13	2.50	
7,304.0	89.30	1.20	5,340.2	2,313.5	39.0	2,313.8	0.99	-0.94	0.31	
7,336.0	89.10	1.10	5,340.7	2,345.5	39.6	2,345.8	0.70	-0.63	-0.31	
7,368.0	89.30	0.90	5,341.1	2,377.5	40.2	2,377.8	0.88	0.63	-0.63	
7,399.0	89.80	0.60	5,341.3	2,408.5	40.6	2,408.8	1.88	1.61	-0.97	
7,431.0	89.20	1.30	5,341.6	2,440.5	41.1	2,440.8	2.88	-1.88	2.19	
7,463.0	88.70	1.50	5,342.2	2,472.5	41.9	2,472.8	1.68	-1.56	0.63	
7,495.0	88.70	0.90	5,342.9	2,504.5	42.6	2,504.8	1.87	0.00	-1.88	
7,526.0	89.20	1.10	5,343.5	2,535.5	43.1	2,535.8	1.74	1.61	0.65	
7,558.0	88.90	2.10	5,344.0	2,567.4	44.0	2,567.8	3.26	-0.94	3.13	
7,589.0	89.20	2.30	5,344.6	2,598.4	45.2	2,598.8	1.16	0.97	0.65	
7,621.0	89.40	1.80	5,344.9	2,630.4	46.3	2,630.8	1.68	0.63	-1.56	
7,652.0	89.70	2.10	5,345.2	2,661.4	47.4	2,661.8	1.37	0.97	0.97	
7,684.0	90.00	2.70	5,345.3	2,693.4	48.7	2,693.8	2.10	0.94	1.88	
7,715.0	90.20	3.10	5,345.2	2,724.3	50.3	2,724.8	1.44	0.65	1.29	
7,747.0	90.60	3.10	5,345.0	2,756.3	52.0	2,756.8	1.25	1.25	0.00	
7,779.0	90.90	3.10	5,344.6	2,788.2	53.7	2,788.7	0.94	0.94	0.00	
7,811.0	91.10	3.00	5,344.0	2,820.2	55.4	2,820.7	0.70	0.63	-0.31	
7,842.0	91.40	2.60	5,343.3	2,851.1	57.0	2,851.7	1.61	0.97	-1.29	
7,874.0	91.60	2.70	5,342.5	2,883.1	58.4	2,883.7	0.70	0.63	0.31	
7,906.0	92.20	2.80	5,341.4	2,915.0	60.0	2,915.6	1.90	1.88	0.31	
7,937.0	91.60	2.90	5,340.4	2,946.0	61.5	2,946.6	1.96	-1.94	0.32	
7,969.0	90.80	2.90	5,339.7	2,977.9	63.1	2,978.6	2.50	-2.50	0.00	
8,000.0	90.30	1.70	5,339.4	3,008.9	64.4	3,009.6	4.19	-1.61	-3.87	
8,032.0	90.40	0.90	5,339.2	3,040.9	65.1	3,041.6	2.52	0.31	-2.50	
8,063.0	90.60	0.70	5,339.0	3,071.9	65.5	3,072.6	0.91	0.65	-0.65	
8,095.0	89.30	0.70	5,339.0	3,103.9	65.9	3,104.6	4.06	-4.06	0.00	
8,127.0	88.90	0.70	5,339.5	3,135.9	66.3	3,136.6	1.25	-1.25	0.00	
8,158.0	88.70	0.70	5,340.2	3,166.9	66.7	3,167.6	0.65	-0.65	0.00	
8,190.0	89.10	0.60	5,340.8	3,198.8	67.1	3,199.6	1.29	1.25	-0.31	
8,222.0	89.20	0.40	5,341.2	3,230.8	67.3	3,231.5	0.70	0.31	-0.63	
8,254.0	89.50	0.80	5,341.6	3,262.8	67.7	3,263.5	1.56	0.94	1.25	
8,286.0	89.80	0.60	5,341.8	3,294.8	68.1	3,295.5	1.13	0.94	-0.63	
8,317.0	90.00	0.60	5,341.9	3,325.8	68.4	3,326.5	0.65	0.65	0.00	
8,349.0	90.80	0.60	5,341.6	3,357.8	68.7	3,358.5	2.50	2.50	0.00	
8,380.0	91.50	0.60	5,341.0	3,388.8	69.0	3,389.5	2.26	2.26	0.00	
8,412.0	89.70	0.50	5,340.7	3,420.8	69.4	3,421.5	5.63	-5.63	-0.31	
8,444.0	89.70	0.30	5,340.8	3,452.8	69.6	3,453.5	0.62	0.00	-0.63	

# Archer Survey Report

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Coach 2925 1-26H/ Lariat 3
<b>Project:</b>	Ford County (KS27S)	<b>TVD Reference:</b>	WELL @ 2606.0usft (Original Well Elev)
<b>Site:</b>	Sec 26-T29S-R25W	<b>MD Reference:</b>	WELL @ 2606.0usft (Original Well Elev)
<b>Well:</b>	Coach 2925 1-26H/ Lariat 3	<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)	
8,475.0	89.10	359.90	5,341.2	3,483.8	69.6	3,484.5	2.33	-1.94	-1.29	
8,507.0	88.60	0.00	5,341.8	3,515.8	69.6	3,516.5	1.59	-1.56	0.31	
8,538.0	88.70	359.90	5,342.5	3,546.8	69.6	3,547.5	0.46	0.32	-0.32	
8,570.0	88.40	0.90	5,343.4	3,578.8	69.8	3,579.5	3.26	-0.94	3.13	
8,602.0	88.60	1.70	5,344.2	3,610.8	70.5	3,611.5	2.58	0.63	2.50	
8,634.0	89.80	2.20	5,344.6	3,642.7	71.6	3,643.5	4.06	3.75	1.56	
8,666.0	90.20	2.90	5,344.6	3,674.7	73.0	3,675.4	2.52	1.25	2.19	
8,697.0	91.70	2.90	5,344.1	3,705.7	74.6	3,706.4	4.84	4.84	0.00	
8,729.0	92.50	3.00	5,343.0	3,737.6	76.3	3,738.4	2.52	2.50	0.31	
8,761.0	91.60	2.70	5,341.8	3,769.5	77.8	3,770.4	2.96	-2.81	-0.94	
8,792.0	91.30	2.40	5,341.0	3,800.5	79.2	3,801.3	1.37	-0.97	-0.97	
8,824.0	90.40	1.90	5,340.5	3,832.5	80.4	3,833.3	3.22	-2.81	-1.56	
8,855.0	91.20	1.30	5,340.1	3,863.5	81.3	3,864.3	3.23	2.58	-1.94	
8,887.0	91.30	1.30	5,339.4	3,895.4	82.0	3,896.3	0.31	0.31	0.00	
8,918.0	89.20	1.30	5,339.3	3,926.4	82.7	3,927.3	6.77	-6.77	0.00	
8,950.0	88.40	1.30	5,340.0	3,958.4	83.4	3,959.3	2.50	-2.50	0.00	
8,981.0	88.40	1.30	5,340.8	3,989.4	84.1	3,990.3	0.00	0.00	0.00	
9,013.0	88.70	1.10	5,341.6	4,021.4	84.8	4,022.3	1.13	0.94	-0.63	
9,044.0	89.10	0.90	5,342.2	4,052.4	85.4	4,053.3	1.44	1.29	-0.65	
9,076.0	90.10	1.10	5,342.4	4,084.4	85.9	4,085.3	3.19	3.13	0.63	
9,107.0	91.10	1.30	5,342.1	4,115.4	86.6	4,116.3	3.29	3.23	0.65	
9,139.0	92.00	1.20	5,341.3	4,147.3	87.3	4,148.3	2.83	2.81	-0.31	
9,171.0	90.00	0.70	5,340.7	4,179.3	87.8	4,180.3	6.44	-6.25	-1.56	
9,202.0	89.50	0.90	5,340.8	4,210.3	88.2	4,211.3	1.74	-1.61	0.65	
9,234.0	89.50	1.00	5,341.1	4,242.3	88.8	4,243.2	0.31	0.00	0.31	
9,265.0	89.90	1.10	5,341.3	4,273.3	89.3	4,274.2	1.33	1.29	0.32	
9,297.0	90.60	1.30	5,341.1	4,305.3	90.0	4,306.2	2.28	2.19	0.63	
9,328.0	91.70	0.90	5,340.5	4,336.3	90.6	4,337.2	3.78	3.55	-1.29	
9,360.0	91.70	0.90	5,339.6	4,368.3	91.1	4,369.2	0.00	0.00	0.00	
9,392.0	89.80	0.90	5,339.1	4,400.3	91.6	4,401.2	5.94	-5.94	0.00	
9,423.0	89.10	0.40	5,339.4	4,431.3	91.9	4,432.2	2.77	-2.26	-1.61	
9,455.0	88.80	0.20	5,340.0	4,463.3	92.1	4,464.2	1.13	-0.94	-0.63	
9,486.0	88.40	0.20	5,340.8	4,494.2	92.2	4,495.2	1.29	-1.29	0.00	
9,518.0	88.00	359.90	5,341.8	4,526.2	92.3	4,527.2	1.56	-1.25	-0.94	
9,549.0	88.30	359.90	5,342.8	4,557.2	92.2	4,558.1	0.97	0.97	0.00	
9,581.0	88.60	0.00	5,343.7	4,589.2	92.2	4,590.1	0.99	0.94	0.31	
9,613.0	89.10	359.70	5,344.3	4,621.2	92.1	4,622.1	1.82	1.56	-0.94	
9,645.0	89.50	359.40	5,344.7	4,653.2	91.8	4,654.1	1.56	1.25	-0.94	
9,676.0	89.80	359.30	5,344.9	4,684.2	91.5	4,685.1	1.02	0.97	-0.32	
9,708.0	90.20	359.00	5,344.9	4,716.2	91.0	4,717.1	1.56	1.25	-0.94	
9,739.0	90.50	358.80	5,344.7	4,747.2	90.4	4,748.0	1.16	0.97	-0.65	
<b>Last Archer MWD Survey</b>										
9,789.0	90.90	358.40	5,344.1	4,797.2	89.2	4,798.0	1.13	0.80	-0.80	

# Archer

## Survey Report

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Coach 2925 1-26H/ Lariat 3
<b>Project:</b>	Ford County (KS27S)	<b>TVD Reference:</b>	WELL @ 2606.0usft (Original Well Elev)
<b>Site:</b>	Sec 26-T29S-R25W	<b>MD Reference:</b>	WELL @ 2606.0usft (Original Well Elev)
<b>Well:</b>	Coach 2925 1-26H/ Lariat 3	<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)
Projection to TD - PBHL Coach 1-26H										

Design Annotations	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E/-W (usft)	
	1,351.0	1,350.7	-22.3	7.6	First Archer MWD Survey
	9,739.0	5,344.7	4,747.2	90.4	Last Archer MWD Survey
	9,789.0	5,344.1	4,797.2	89.2	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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